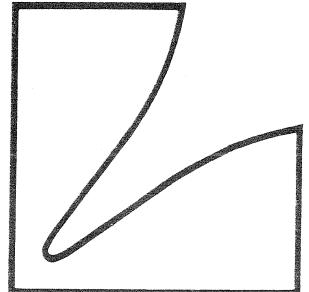


157

SERVICE MANUAL



Stereo Cassette Deck

K-92



Contents

Specifications	3
Parts Locations and Disassembly Instructions	4 to 7
Block Diagram	8
Adjustment Procedures	9 to 11
Adjustment Locations	12
Parts Layout on P.C. Boards and Wiring Diagram	13 to 16
Schematic Diagram (1/2)	17 to 19
Schematic Diagram (2/2)	20 to 22
Electrical Parts List	23 to 28
Packing Assembly Parts List	29
Packing Method View	29
Cabinet Assembly Parts List	30
Exploded View (Cabinet)	31 to 32
Exploded View (Cassette Deck)	33 to 34
Cassette Deck Assembly Parts List	35 to 36
Semi-Conductor Lead Identifications	37 to 39

Specifications

Power Source	AC 220/240V (50/60Hz)
Tape Speed (MTT-111).....	4.75cm/sec. +3%, - 2%
Wow & Flutter (MTT-111, JIS WRMS).....	≤ 0.11%
FF/REW Time (C-60)	≤ 105 sec.
Frequency Response (Playback, ± 4dB)	Normal : 40Hz~14kHz CrO2 : 40Hz~16kHz Metal : 40Hz~16kHz
S/N Ratio (Over all JIS Weighted "A" curve)	Dolby NR-OFF : Normal ≥ 50dB, CrO2/Metal ≥ 52dB Dolby NR-B : Normal/CrO2/Metal ≥ 57dB Dolby NR-C : Normal/CrO2 ≥ 63dB, Metal ≥ 65dB
Input Sensitivity	Line ≤ 100mV
Output Level at 0dB playback	Line : 500mV ± 1.5dB/47k ohm Headphone ≤ 100mV/8 ohm
Distortion 3rd (0dBm input at 333Hz).....	Normal : ≤ 2.5% CrO2/Metal : ≤ 3%
Semi-Conductors	14 IC's, 49 Transistors, 14 Diodes, 2 Zener Diodes, 17 LED's
Chassis Dimensions.....	438(W) x 100(H) x 250(D) mm
Weight	3.8 kg

NOTE: Due to continuing product improvement, specifications and designs are subject to change without notice.

Parts Locations and Disassembly Instructions

Figure 1

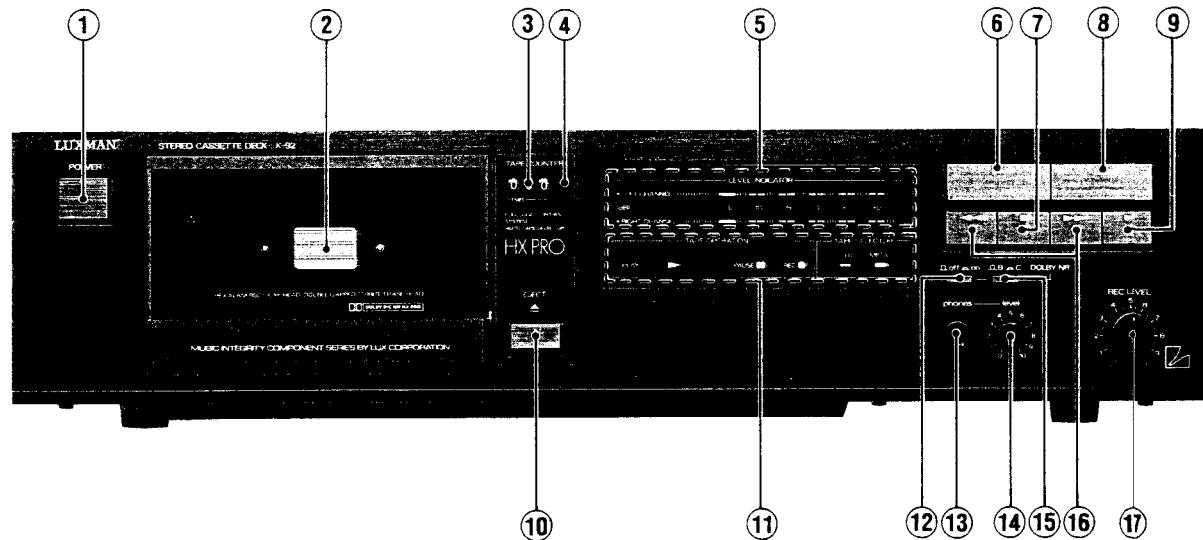
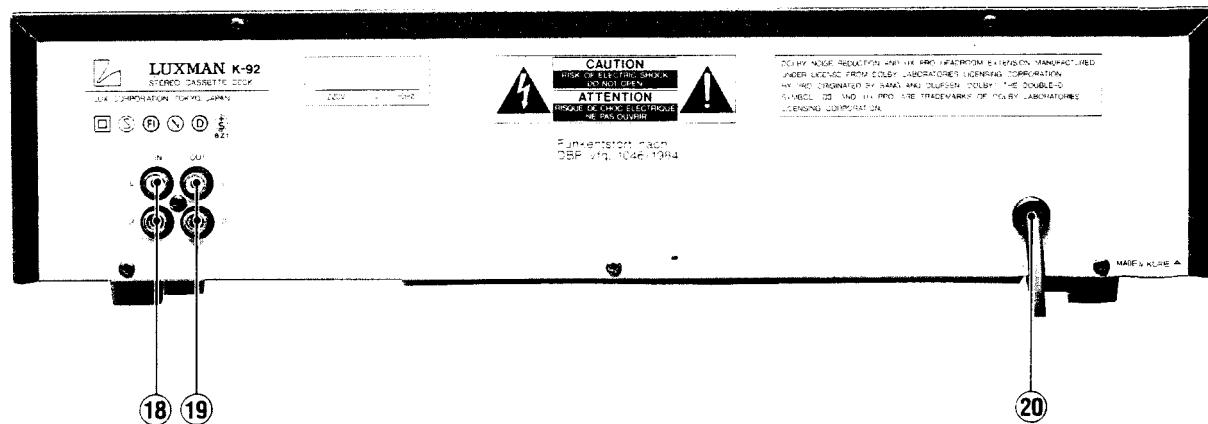


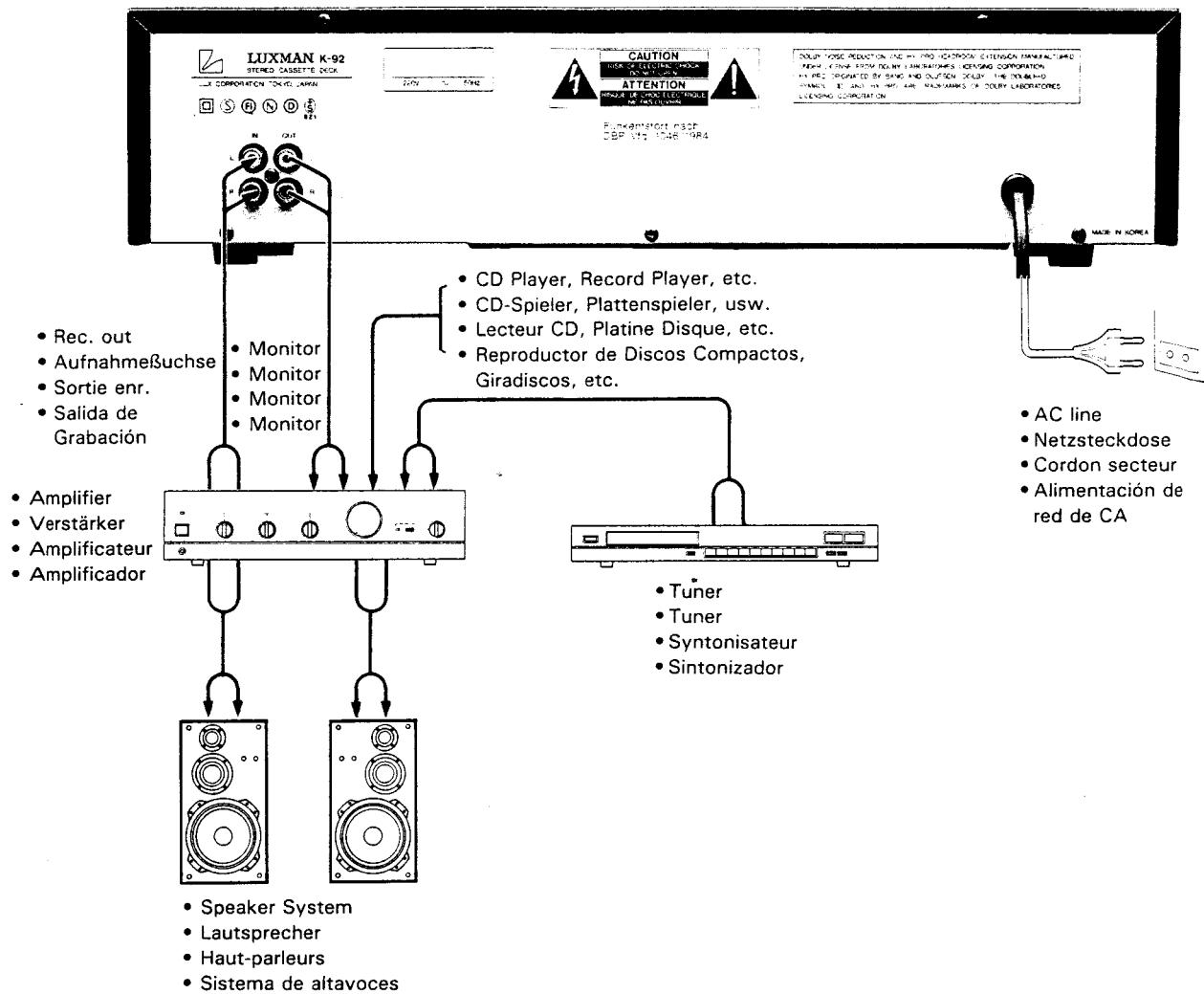
Figure 2



- ① Power Button
- ② Cassette Door
- ③ Tape Counter
- ④ Tape Counter Reset Button
- ⑤ Level Indicators
- ⑥ Play Button (▶)
- ⑦ Stop Button (■)
- ⑧ Pause Button (■■)
- ⑨ Record Button (●)
- ⑩ Eject Button (▲)

- ⑪ Function Indicators
- ⑫ Dolby NR ON/OFF Button
- ⑬ Phones Jack
- ⑭ Level Control Knob
- ⑮ Dolby NR Select (B/C) Button
- ⑯ Fast Forward and Rewind Button
- ⑰ Rec Level Control Knob
- ⑱ Input Jacks
- ⑲ Output Jacks
- ⑳ AC Power Cord

Figure 3



1. Removal of Top Cabinet (Figure 4)

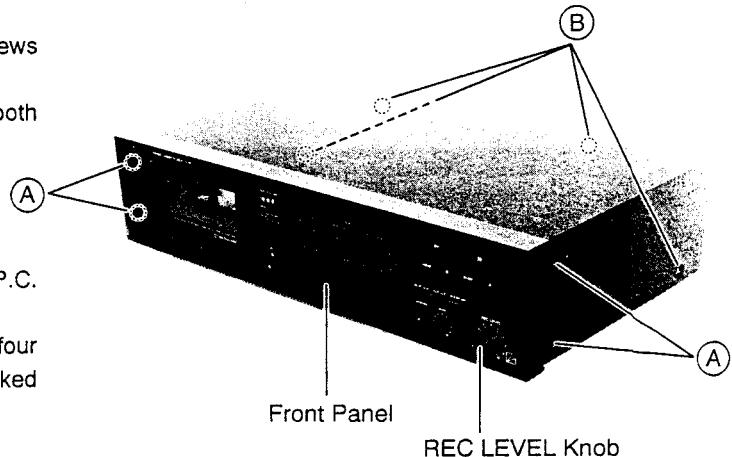
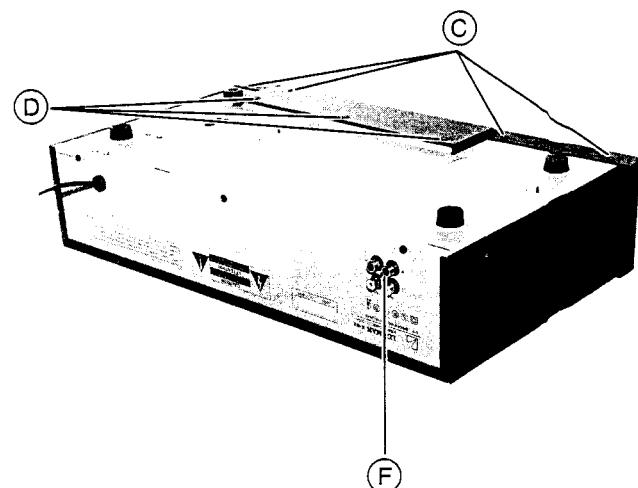
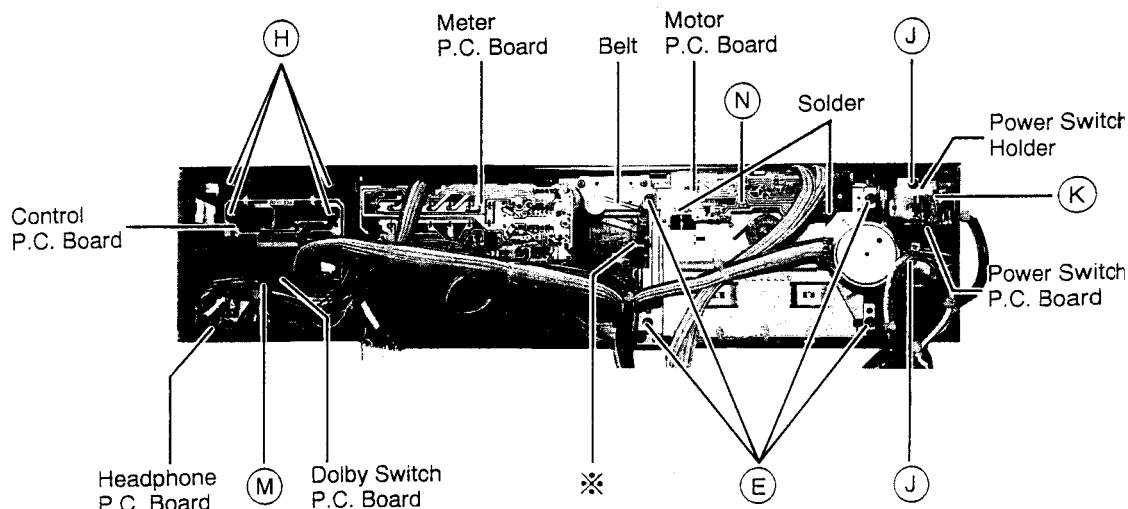
- (1) Remove four screws marked **(A)** and four screws marked **(B)**.
- (2) Slide off the top cabinet, stretching the both sides slightly outside.

2. Removal of Front Panel (Figure 5)

- (1) Remove the top cabinet as shown above.
- (2) Disconnect all connectors from the main P.C. Board and the cassette deck.
- (3) Turn the unit upside down, and remove four screws marked **(C)** and three nylon rivets marked **(D)** from the bottom cabinet.
- (4) Remove the front panel by pulling it.

3. Removal of Cassette Deck Mechanism (Figure 6)

- (1) Remove the front panel as shown above.
- (2) Open the cassette door by pressing the EJECT button.
- (3) To remove the cassette deck mechanism, remove the belt from the counter pulley on the mechanism. (Be carefull not to miss the belt.)
- (4) Remove four black screws **(E)** from the cassette deck mechanism.
- (5) Remove the cassette deck mechanism from the front panel. Be careful not to miss the slider with spacer and screw (shown by ***** in Figure 6) when removing the mechanism.

**Figure 4****Figure 5****Figure 6**

4. Removal of Main P.C. Board (Figures 5 and 7)

- (1) Remove the top cabinet.
- (2) Disconnect all connectors from the main P.C. Board and the cassette deck.
- (3) Remove a screw (F) from the RCA jack section. (Figure 5)
- (4) Remove four screws (G) from the P.C. Board. (Figure 7)

5. Removal of Control P.C. Board (Figure 6)

- (1) Remove the front panel.
- (2) Remove four screws (H) from the P.C. Board.

6. Removal of Power Switch P.C. Board (Figure 6)

- (1) Remove the front panel.
- (2) Make sure that the power switch is off (not depressed.)
- (3) Remove two screws (J) that secure the power switch holder.
- (4) Pull the power switch P.C. Board with the holder strongly backward to remove the power switch shaft from the power switch knob.
- (5) Remove one screw (K) from the holder.

7. Removal of Dolby Switch P.C. Board (Figure 8)

- (1) Remove the front panel.
- (2) Remove two screws (L) from the P.C. Board.

8. Removal of Headphone P.C. Board (Figures 4 and 6)

- (1) Remove the front panel.
- (2) Remove REC LEVEL knob from the front panel by pulling it. (Figure 4)
- (3) You will find a nut with a washer in the hole after removing the REC LEVEL knob. Remove the nut and washer.
- (4) Remove one screw (M) from the headphone holder. (Figure 6)

9. Removal of Meter P.C. Board (Figure 6)

- (1) Remove the front panel.
- (2) Remove the P.C. Board by stretching the four detents slightly that secure the P.C. Board to the frame.

10. Removal of Motor P.C. Board (Figures 6 and 7)

- (1) Remove the cassette deck mechanism.
- (2) Remove three screws (N) from the P.C. Board.
- (3) Unsolder the two solenoids and remove the P.C. Board.

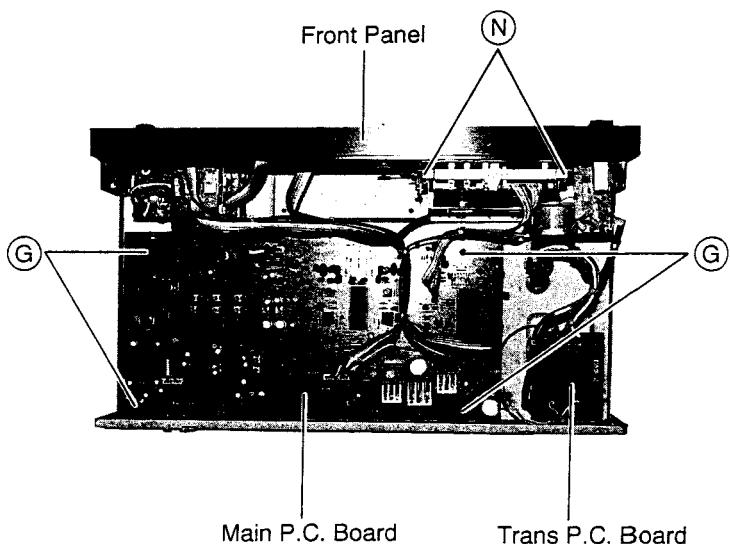


Figure 7

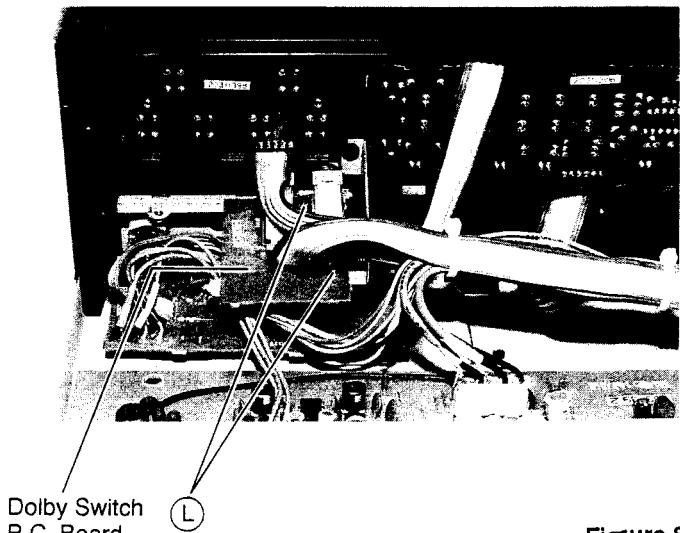
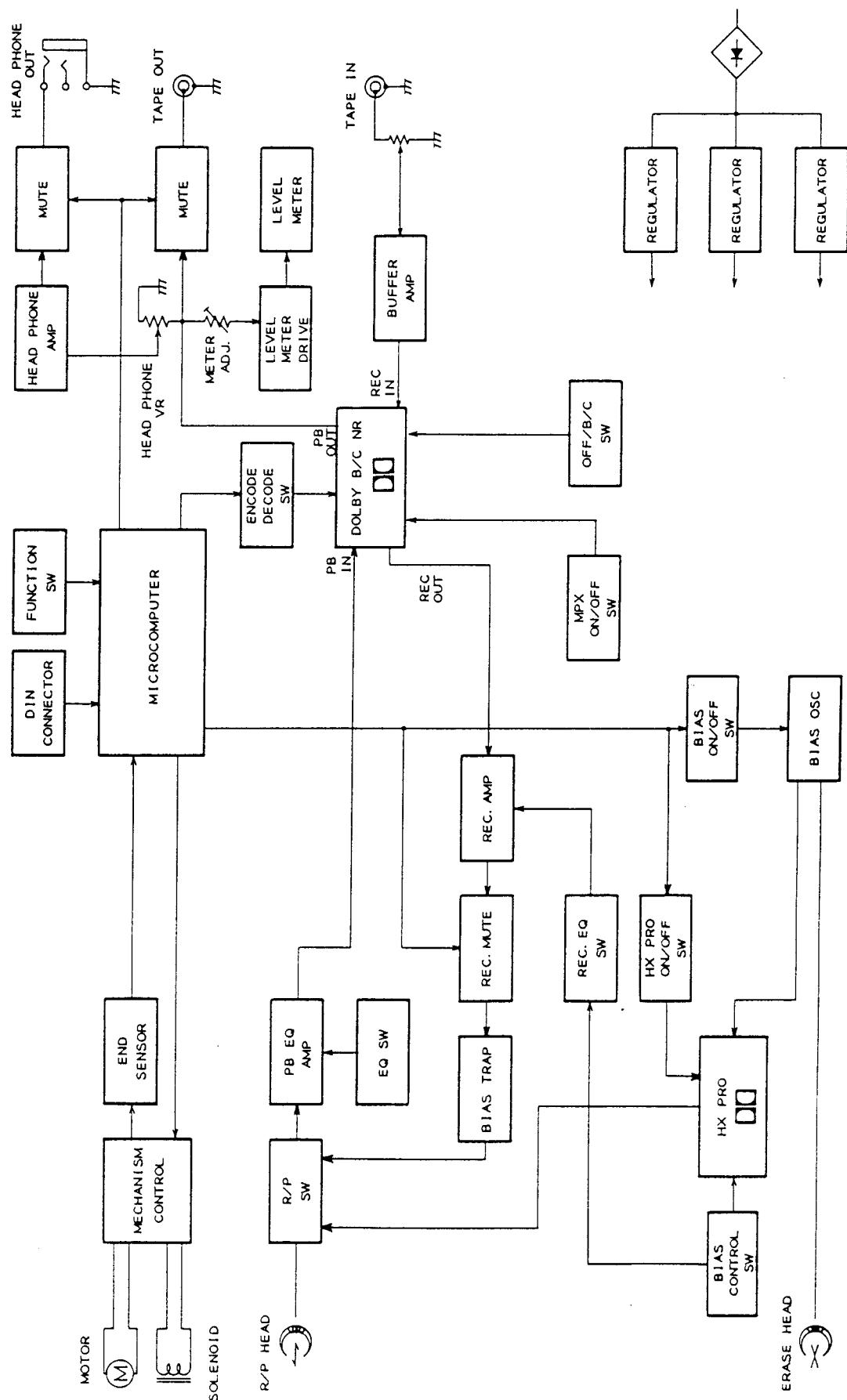


Figure 8

Dolby Switch
P.C. Board

Block Diagram



Adjustment Procedures

TEST EQUIPMENTS

1. VTVM (Vacuum Tube Voltmeter)
2. Signal Generator
3. Resistance Attenuator
4. Screwdriver
5. Frequency Counter

6. Test Tapes

- MTT-111 (Speed 3kHz)
- MTT-114 (Azimuth 10kHz)
- MTT-150 (Dolby 400Hz Modulation)
- AC-223 (Normal Tape : Blank)
- AC-512 (CrO₂ Tape : Blank)
- AC-712 (Metal Tape : Blank)

No.	Adjustment Item	Test Value	Test Tape	Rec. Volume Control VR802	Switch Position			Adjustable Parts	Test Point	Input Frequency	Equipment/Connection	Remarks
					NR	NR B or C	Input					
1	Head Azimuth Adjustment	Maximum	MTT-114	—	OFF	—	—	Adjustment Screw	TAPE OUT	—	VTVM See Fig. 9	Apply lock paint after adjustment.
2	Tape Speed (Normal Speed)	3000 ± 30Hz	MTT-111	—	OFF	—	—	VR845	TAPE OUT	—	Frequency Counter	Check at the halfway point of the tape length.
3	Playback Sensitivity Adjustment	500 ± 10mV	MTT-150	—	OFF	—	—	VR101 (L) VR102 (R)	TAPE OUT	—	See Fig. 10	—
4	Bias Oscillator Frequency Adjustment	105 ± 0.5kHz	AC-223	—	OFF	—	—	L209	HOT : TP-1 GND : TP-2	—	See Fig. 11	Adjust in REC mode.
5	Bias Trap Adjustment	Minimum	AC-223	—	OFF	—	—	Lch L205 Rch L206	HOT : TP-5 GND : TP-7 HOT : TP-6 GND : TP-7	—	VTVM	Adjust in REC mode.
6	Bias Current Adjustment	5.2 ± 0.1mV 6.2 ± 0.1mV 11 ± 0.2mV	AC-223 AC-512 AC-712	—	OFF	—	—	Lch/Rch VR207/VR208 Lch/Rch VR205/VR206 Lch/Rch VR203/VR204	Lch HOT : TP-1 GND : TP-2 Rch HOT : TP-3 GND : TP-4	—	VTVM	Adjust in REC mode.
7	Rec. Level Meter Sensitivity Adjustment	+3dB	AC-223	Maximum	OFF	—	TAPE IN	Lch VR815 Rch VR816	Lch HOT : TP-12 GND : TP-14 Rch HOT : TP-13 GND : TP-14	400Hz	VTVM	Adjust VR815/816 so that the +3dB point (□ mark) on the level meter lights dimly. (Input level at 90mV -1.5dB).
8	Rec. Sensitivity Adjustment	160mV ± 0.5dB	AC-223	Maximum	OFF	—	TAPE IN	Lch VR209 Rch VR210	Lch HOT : TP-15 GND : TP-7 Rch HOT : TP-16 GND : TP-7	400Hz	See Fig. 12	Adjust VR209/210 so that TP15-7/16-7 measure 100mV ± 0.5dB. When supply the input level at 90mV, check that TAPE OUT for 500mV ± 40mV.
9	Rec./PB Frequency Response Adjustment	0 ± 1dB	AC-223 AC-512 AC-712	Maximum	OFF	—	TAPE IN	Lch/Rch VR207/VR208 Lch/Rch VR205/VR206 Lch/Rch VR203/VR204	TAPE OUT	400Hz 10kHz	See Fig. 13	Adjust TAPE OUT for 500mV - 25dB first by resistance attenuator. Then adjust VRs 203-208 so that the rec/play level is 0 ± 1dB.
Measurement Conditions		<ul style="list-style-type: none"> ● Power Supply : AD=220V (50Hz) ● Input : 0dB=1Vrms ● TAPE IN (Signal Generator Output Impedance) : 600 ohms ● TAPE OUT (Load Impedance) : 47k ohms ● HEADPHONE OUT (Load Impedance) : 8 ohms ● Test Point Load Impedance : No load 										

Figure 9 HEAD AZIMUTH ADJUSTMENT

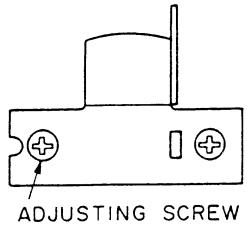


Figure 10 PLAYBACK SENSITIVITY ADJUSTMENT

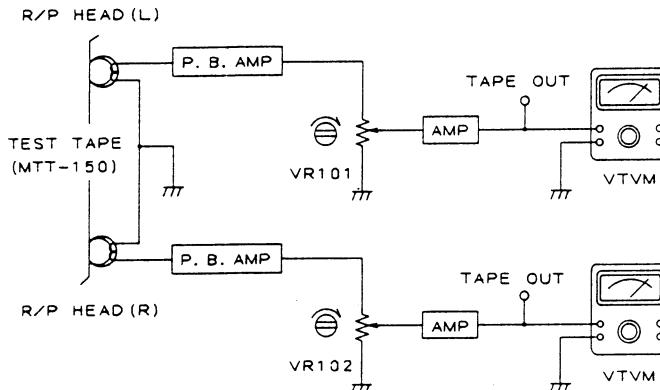


Figure 11 BIAS OSCILLATOR FREQUENCY ADJUSTMENT

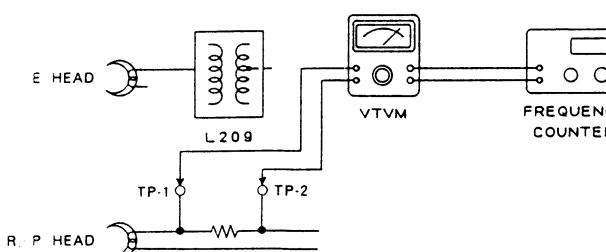


Figure 12 RECORD SENSITIVITY ADJUSTMENT

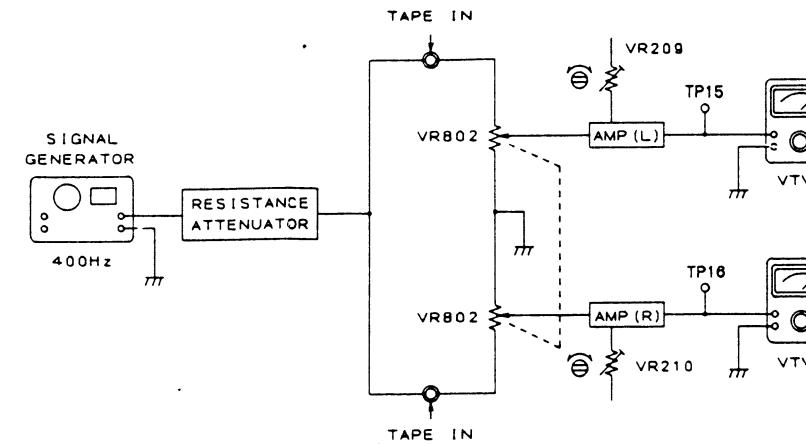
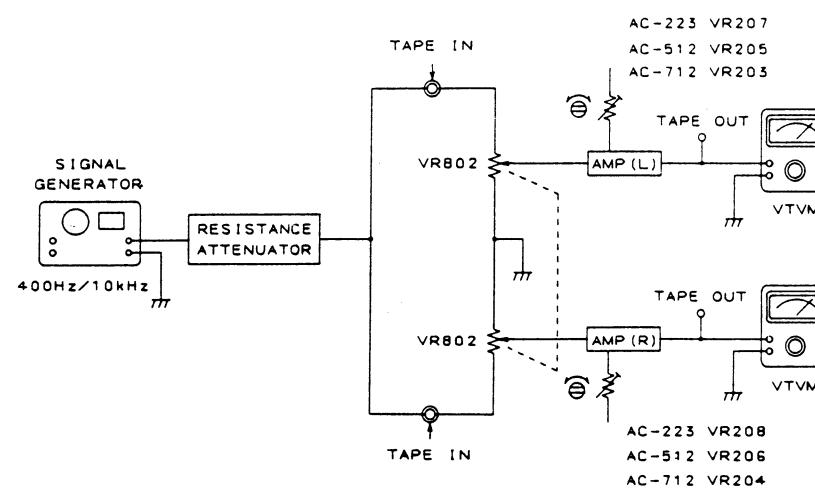
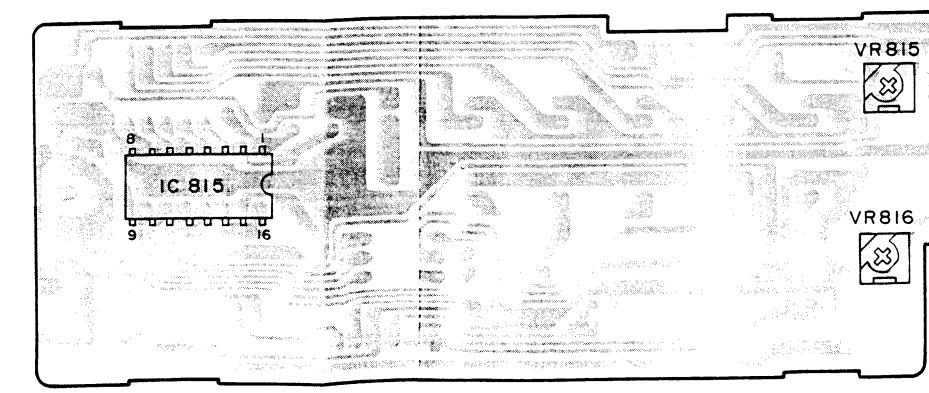


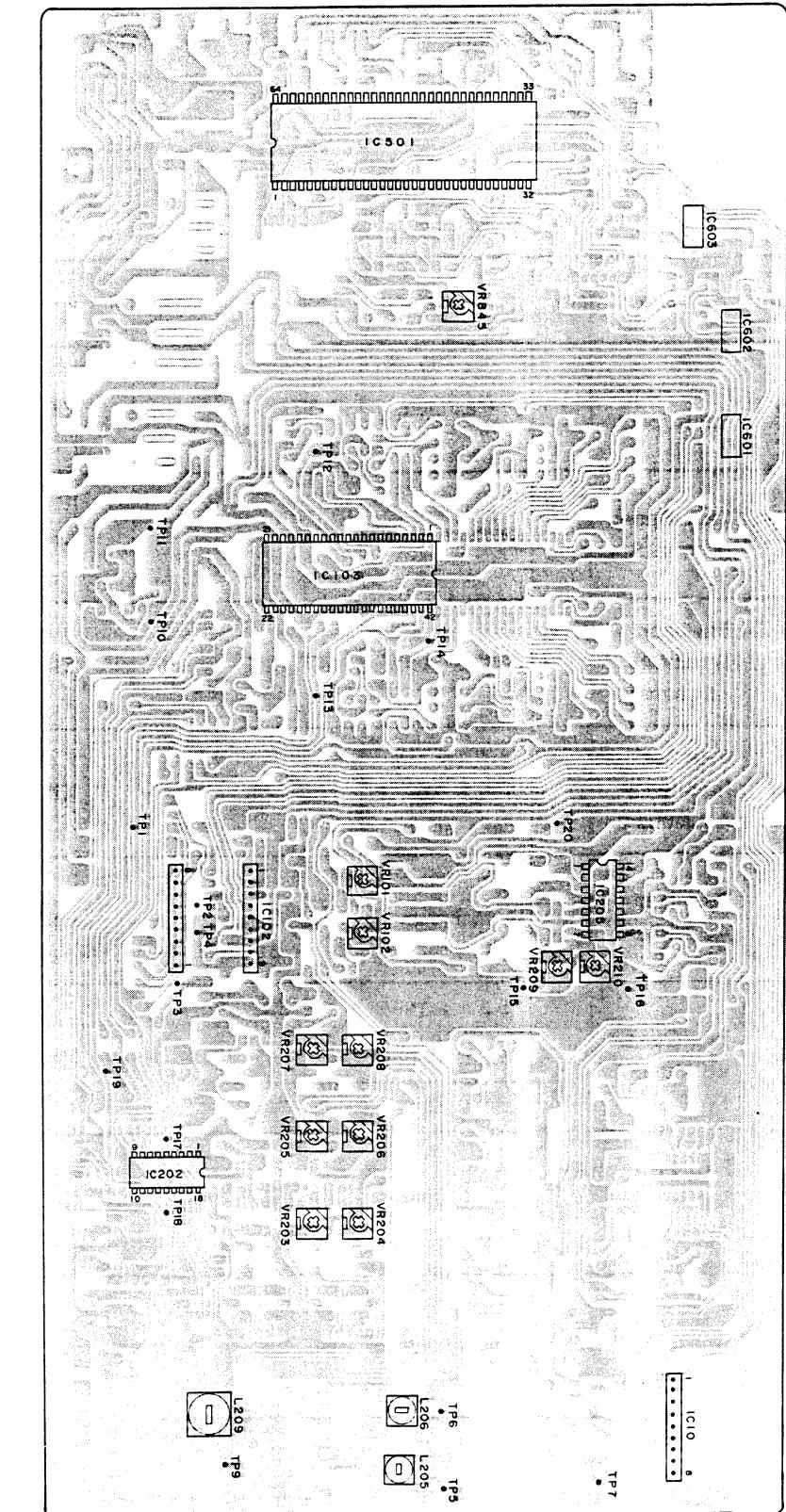
Figure 13 RECORD/PLAYBACK FREQUENCY RESPONSE ADJUSTMENT



Adjustment Locations



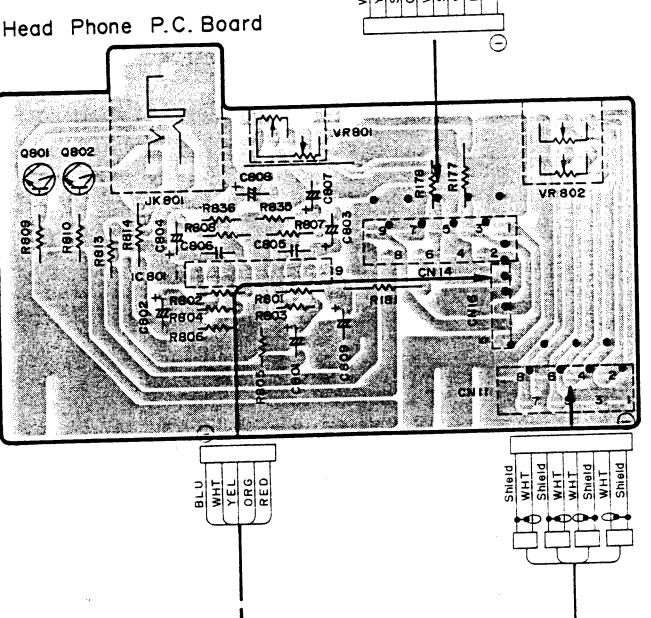
Meter P.C. Board



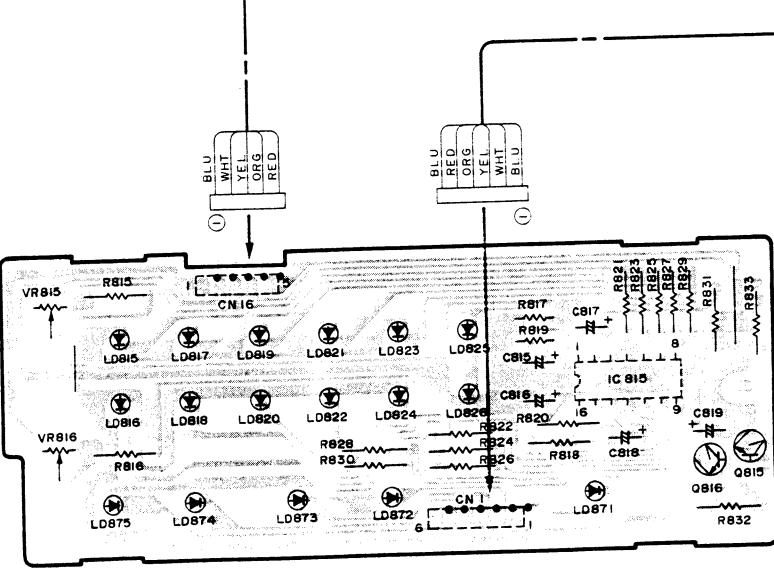
Main P.C. Board

Parts Layout on P.C. Boards and Wiring Diagram

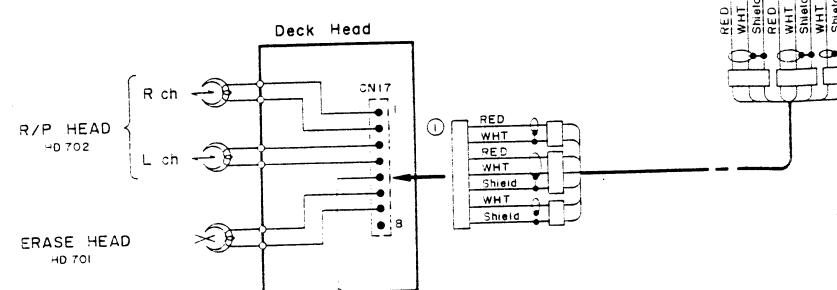
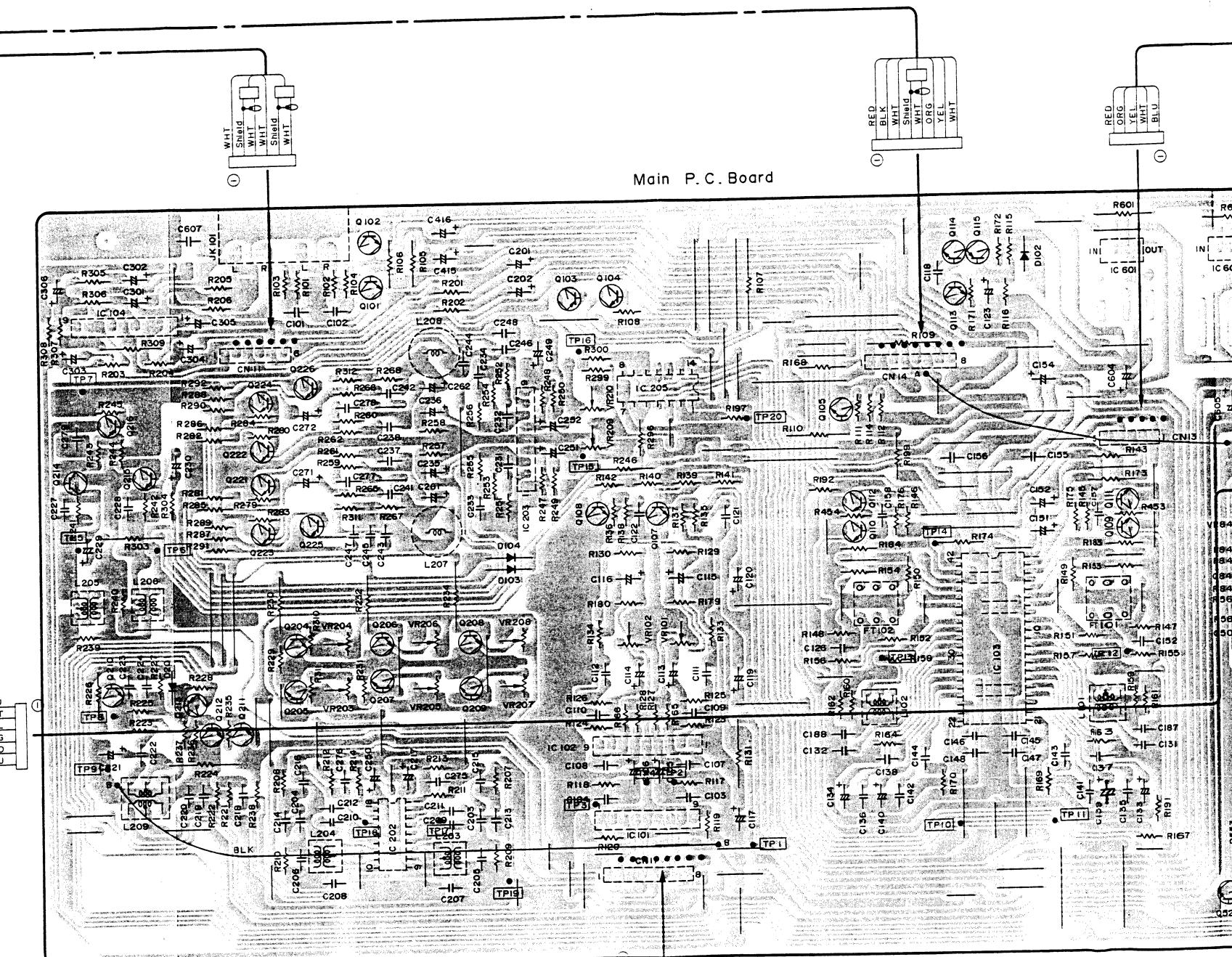
1

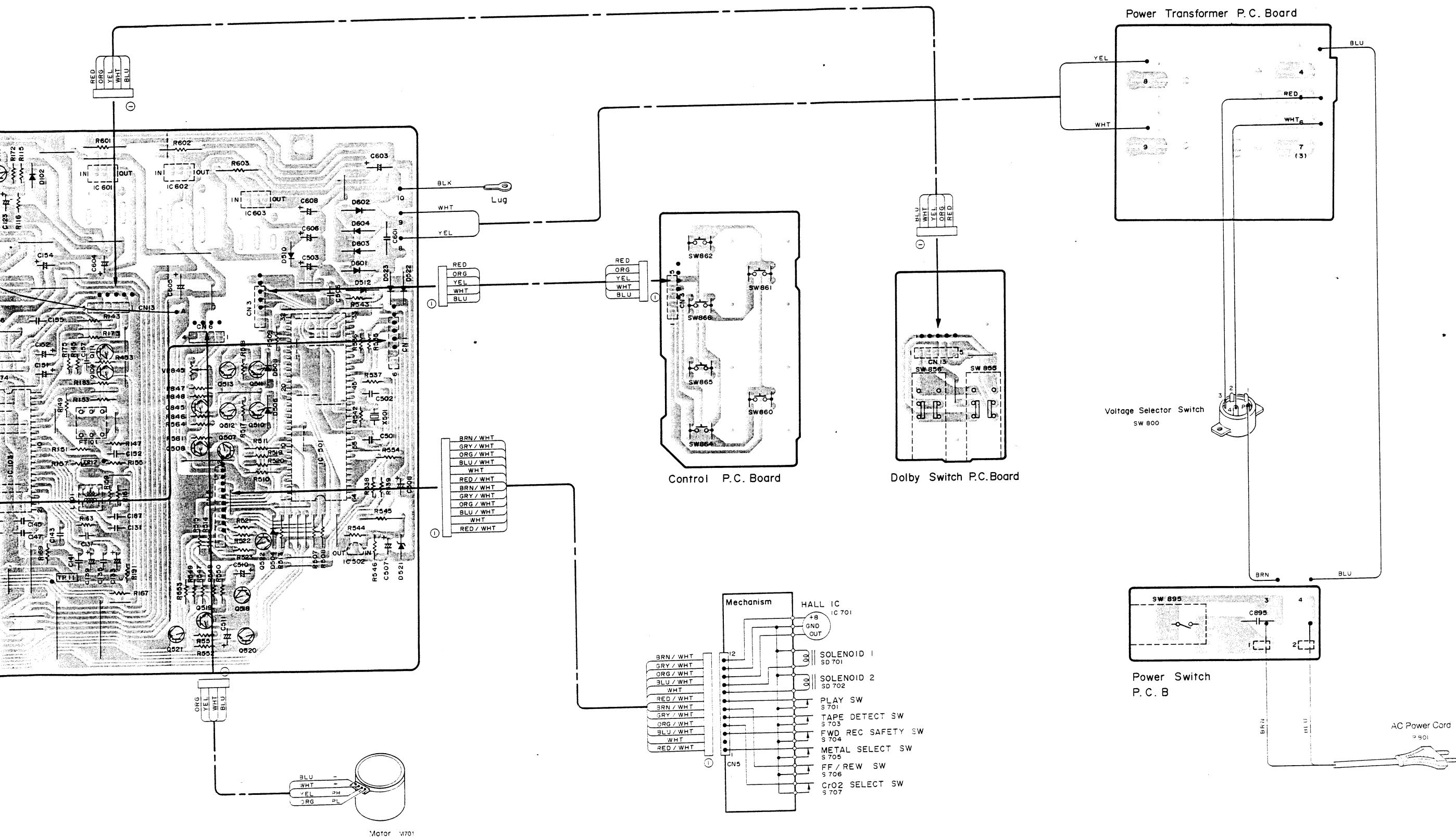


2



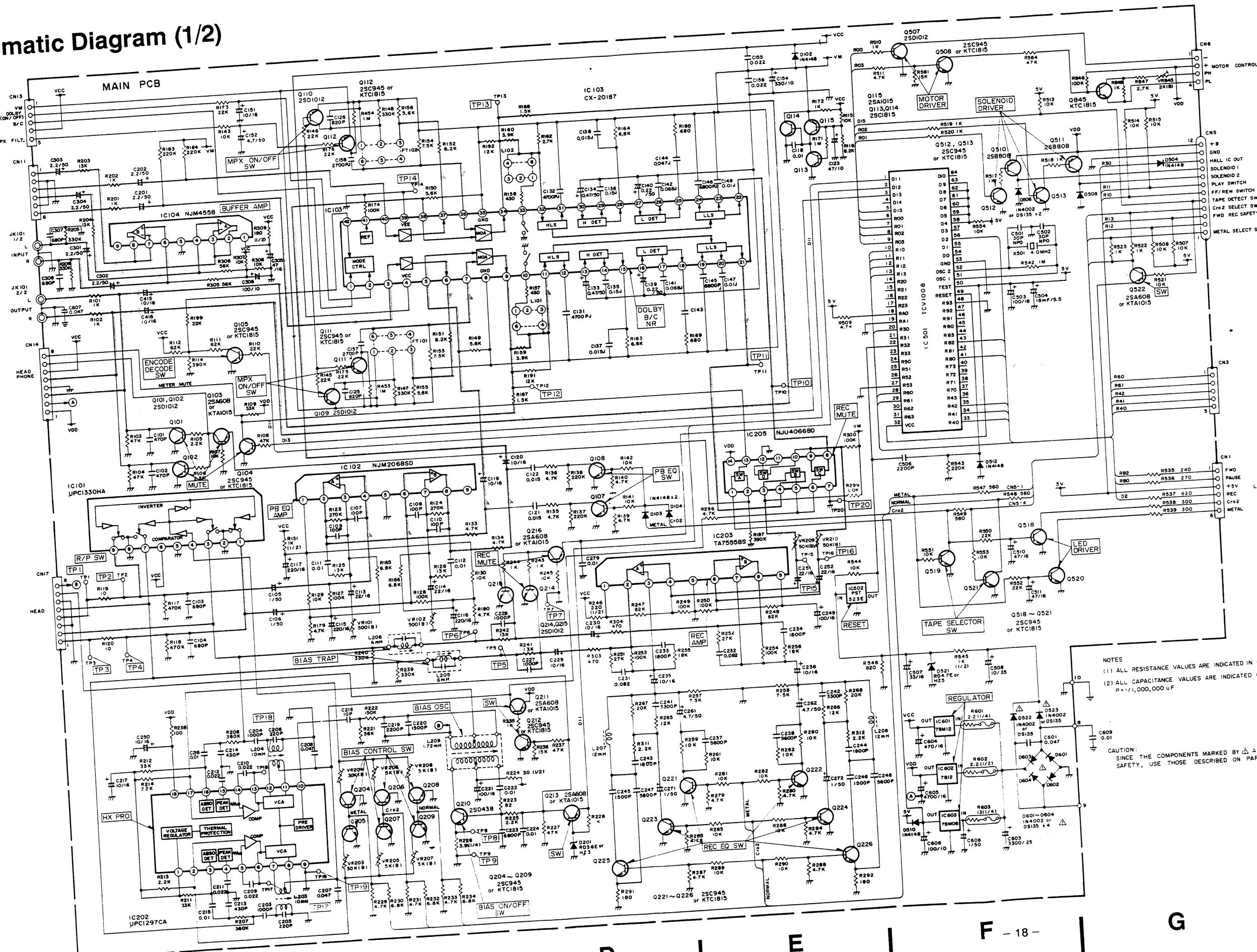
1





Schematic Diagram (1/2)

1



2

IC101	Pin No	REC
	1	0V
	2	0V
	3	0V
	4	4.4V
	5	0V
	6	12.0V
	7	0V
	8	0V
	9	0V

IC102	Pin No	REC
	1	7.3V
	2	5.8V
	3	5.0V
	4	4.9V
	5	5.0V
	6	4.8V
	7	5.0V
	8	5.0V
	9	7.3V

IC103	Pin No	REC
	1	+
	2	+
	3	+
	4	+
	5	+
	6	+
	7	+
	8	+
	9	+

IC104	Pin No	REC
	1	+
	2	+
	3	+
	4	+
	5	+
	6	+
	7	+
	8	+
	9	+

IC105	Pin No	REC
	1	+
	2	+
	3	+
	4	+
	5	+
	6	+
	7	+
	8	+
	9	+

IC106	Pin No	REC
	1	+
	2	+
	3	+
	4	+
	5	+
	6	+
	7	+
	8	+
	9	+

IC107	Pin No	REC
	1	+
	2	+
	3	+
	4	+
	5	+
	6	+
	7	+
	8	+
	9	+

IC108	Pin No	REC
	1	+
	2	+
	3	+
	4	+
	5	+
	6	+
	7	+
	8	+
	9	+

IC109	Pin No	REC
	1	+
	2	+
	3	+
	4	+
	5	+
	6	+
	7	+
	8	+
	9	+

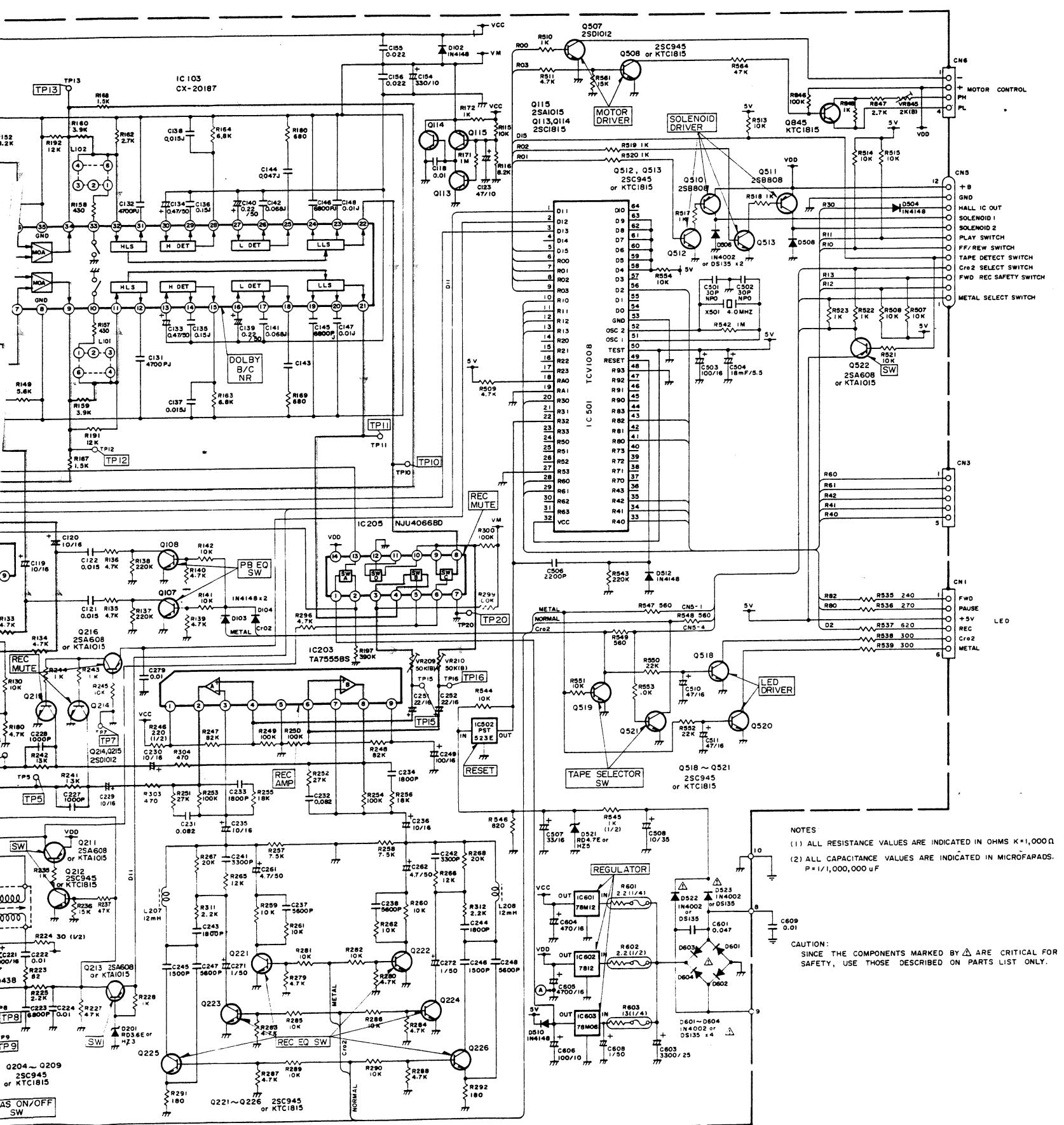
NOTES

(1) ALL RESISTANCE VALUES ARE INDICATED IN OHMS (1,000Ω)

(2) ALL CAPACITANCE VALUES ARE INDICATED IN MICROFARADS.

P = 1/1,000,000 UF

CAUTION:
SINCE THE COMPONENTS MARKED BY Δ ARE CRITICAL FOR
SAFETY, USE THOSE DESCRIBED ON PARTS LIST ONLY.



IC101		
Pin No.	REC	Others
1	0V	0V
2	0V	0V
3	0V	0V
4	4.4V	0V
5	0V	0V
6	12.0V	12.0V
7	0V	0V
8	0V	0V
9	0V	0V

IC No	IC102	IC104	IC203
Pin No			
1	7.3V	11.4V	11.0V
2	5.8V	8.0V	8.0V
3	5.0V	6.0V	6.0V
4	4.8V	5.8V	6.0V
5	0V	0V	0V
6	4.9V	5.9V	6.1V
7	5.0V	8.0V	8.1V
8	5.8V	6.0V	6.1V
9	7.3V	11.4V	11.0V

IC202

Normal					Q101, Q102		
1	4.3V	4.3V	4.3V	4.3V	Pin	Stop	Other
2	1.3V	1.8V	3.2V	3.2V			

3	4.5V	4.5V	4.5V	0.5V	0.5V	0.5V	0V	10.2V
4	1.8V	2.4V	3.7V	0.5V				
5	1.3V	1.8V	3.2V	0V				

Q204, 205				Q206, 207				Q208, 209			
Pin	Normal	CrO2	Metal	Normal	CrO2	Metal	Normal	Normal	CrO2	Metal	No Tape
E	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
C	1.4V	1.8V	0V	4.4V	1.4V	0V	3.2V	4.4V	0.0V	1.8V	3.4V
B	0V	0V	0.8V	0V	0V	0.7V	0V	0V	0.7V	0V	0V

13 3.3V			4.3V			8.7V			8.8V		
14	1.4V	1.8V	3.3V	3.9V	0V						
15	1.8V	2.4V	3.8V	4.3V	0.8V						
16	4.3V	4.3V	4.3V	4.3V							
17	1.4V	1.8V	3.4V	3.4V							
18	11.0V	11.0V	10.8V	10.0V							

IC103					IC501					IC801		
Pin No.	Dolby off	Dolby B	Dolby C	REC	Pin No.	PLAY	REC	Pin No.	PLAY	REC	Pin	IC801
1	12.0V	12.0V	8.0V	12.0V	1	0V	4.5V	33	5.1V	5.1V	1	0V
2	12.0V	8.0V	8.0V	12.0V	2	5.0V	0V	34	5.1V	5.1V	2	5.5V
					3	5.0V	0V	35	5.1V	5.1V	3	5.2V
					4	5.0V	0V	36	5.1V	5.1V	4	5.5V
					5	5.0V	0V	37	5.1V	5.1V	5	5.2V

4	12.0V	12.0V	12.0V	12.0V	4	0V	0V	38	0V	0V
5	8.0V	8.0V	8.0V	8.0V	5	0V	0V	37	0V	0V
6	8.0V	8.0V	8.0V	8.0V	6	4.1V	4.1V	38	0V	0V
7	8.0V	8.0V	8.0V	8.0V	7	0V	0V	39	0V	0V
8	8.0V	8.0V	8.0V	8.0V	8	0V	0V	40	0V	0V
9	6.0V	8.0V	8.0V	6.0V	9	0V	0V	41	3.7V	3.7V
10	8.0V	8.0V	8.0V	6.0V	10	5.1V	5.1V	42	0V	0V
11	6.0V	8.0V	8.0V	6.0V	11	0V	0V	43	0.4-3.8V	0.4-3.8V
12	8.0V	8.0V	8.0V	8.0V	12	5.1V	5.1V	44	0V	0V
13	0.2V	0.3V	0.3V	0.2V	13	0V	0V	45	5.1V	5.1V
14	0.2V	0.3V	0.3V	0.2V	14	0V	0V	46	5.1V	5.1V
15	6.0V	8.0V	8.0V	6.0V	15	0V	0V	47	5.1V	5.1V
16	0.2V	0.2V	0.3V	0.2V	16	0V	0V	48	0V	0V
17	0.2V	0.2V	0.3V	0.2V	17	0V	5.1V	49	0V	0V
18	6.0V	8.0V	8.0V	6.0V	18	5.1V	5.1V	50	5.1V	5.1V
19	6.0V	8.0V	8.0V	6.0V	19	0V	0V	51	2.2V	2.2V
20	6.0V	8.0V	8.0V	6.0V	20	0.5-5.1V	0.5-5.1V	52	2.2V	2.2V
21	6.0V	8.0V	8.0V	6.0V	21	5.1V	5.1V	53	0V	0V
22	6.0V	8.0V	8.0V	6.0V	22	4.8V	4.8V	54	5.1V	5.1V
23	6.0V	8.0V	8.0V	6.0V	23	5.1V	5.1V	55	5.1V	5.1V
24	6.0V	6.0V	8.0V	6.0V	24	5.1V	5.1V	56	5.1V	0.2V
25	6.0V	6.0V	8.0V	6.0V	25	5.1V	5.1V	57	5.1V	5.1V
26	0.2V	0.2V	0.3V	0.2V	26	5.8V	5.1V	58	5.1V	5.1V
27	0.2V	0.2V	0.3V	0.2V	27	0V	0V	59	5.1V	5.1V
28	6.0V	6.0V	8.0V	6.0V	28	0V	0V	60	5.1V	5.1V
29	0.2V	0.3V	0.3V	0.2V	29	0V	0V	61	5.1V	5.1V
30	0.2V	0.3V	0.3V	0.2V	30	0V	0V	62	5.1V	5.1V
31	6.0V	6.0V	8.0V	6.0V	31	0V	0V	63	5.1V	5.1V
32	0.2V	0.2V	0.3V	0.2V	32	0V	5.1V	64	0V	0V

Q214			Q215			Q216		
Pin	REC	Others	REC	Others	REC	Other	REC	Other
E	0V	0V	0V	0V	0V	4.7V		
C	0V	0V	0V	0V	0V	4.6V		
B	0V	0.7V	0V	0.7V	0V	4.0V		

Q221, 222			Q223, 224			Q225, 226		
Pin	Normal/ CrO2	Metal	Normal/ Metal	Metal	CrO2	Pin	Metal/ CrO2	Normal
E	0V	0V	0V	0V	0V	E	0V	0V
C	0V	0V	0V	0V	0V	C	0V	0V
B	0V	0.6V	0V	0.6V	0V	B	0V	0.7V

Q507			Q508			Q845		
Pin	Stop	Others	Play	FF/Rew	Others	Play	FF/Rew	Others
E	0V	0V	0V	0V	0V	8.2V	7.7V	
C	10.8V	0V	8.8V	0V	8.8V	8.3V	8.1V	
B	0V	0.7V	0V	0.7V	0V	8.8V	3.9V	

Q510		Q511		Q512		Q513	
Pin	Stop	Stop	Stop	Stop	Stop	Stop	Stop
E	12.1V	12.1V	0V	0V			
C	0V	0V	11.5V	11.5V			

Q518					Q519		
Pin	Normal	CrO2	Metal	No Tape	Normal	CrO2	Metal
E	0V	0V	0V	0V	0V	0V	0V
C	3.8V	0.1V	3.7V	3.8V	0V	2.9V	0V
B	0V	0.7V	0.0V	0V	0V	0V	0.7V

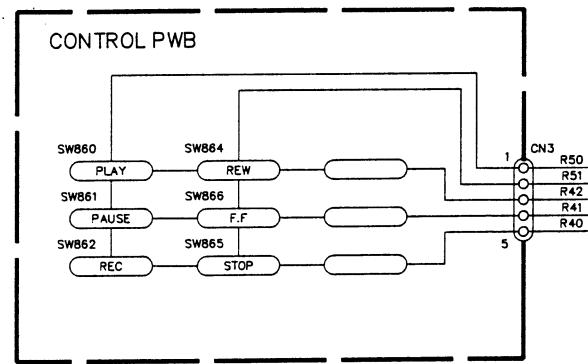
Q520					Q521		
Pin	Normal	CrO2	Metal	No Tape	Normal	CrO2	Metal
E	0V	0V	0V	0V	0V	0V	0V
C	3.8V	0.1V	3.7V	3.8V	1.2V	0.1V	1.1V

B	0V	0V	0.7V	0V	0V	0.7V	0.7V
Q107, 108			Q522				
Pin	Normal	CrO2/ Metal	Pin	No Tape	Others		
E	0V	0V	E	5.2V	5.1V		
C	0V	0V	C	0V	5.0V		
B	0V	0.6V	B	5.2V	4.4V		

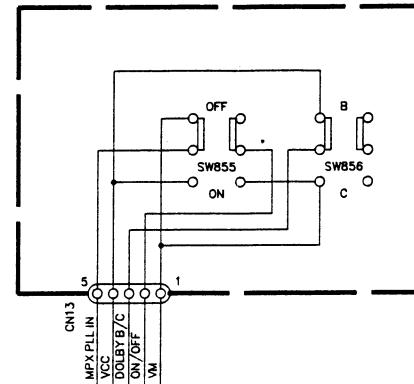
Q109, 110			Q111, 112		Pin	Q113	Q114
Pin	Mpx-off	Mpx-on	Mpx-off	Mpx-on	Pin	Q113	Q114
E	8.0V	8.0V	8.0V	8.0V	E	0V	0V
C	5.8V	8.0V	5.8V	8.0V	C	0.7V	0.6V
B	8.0V	8.7V	8.0V	8.7V	B	0.6V	0.7V

Schematic Diagram (2/2)

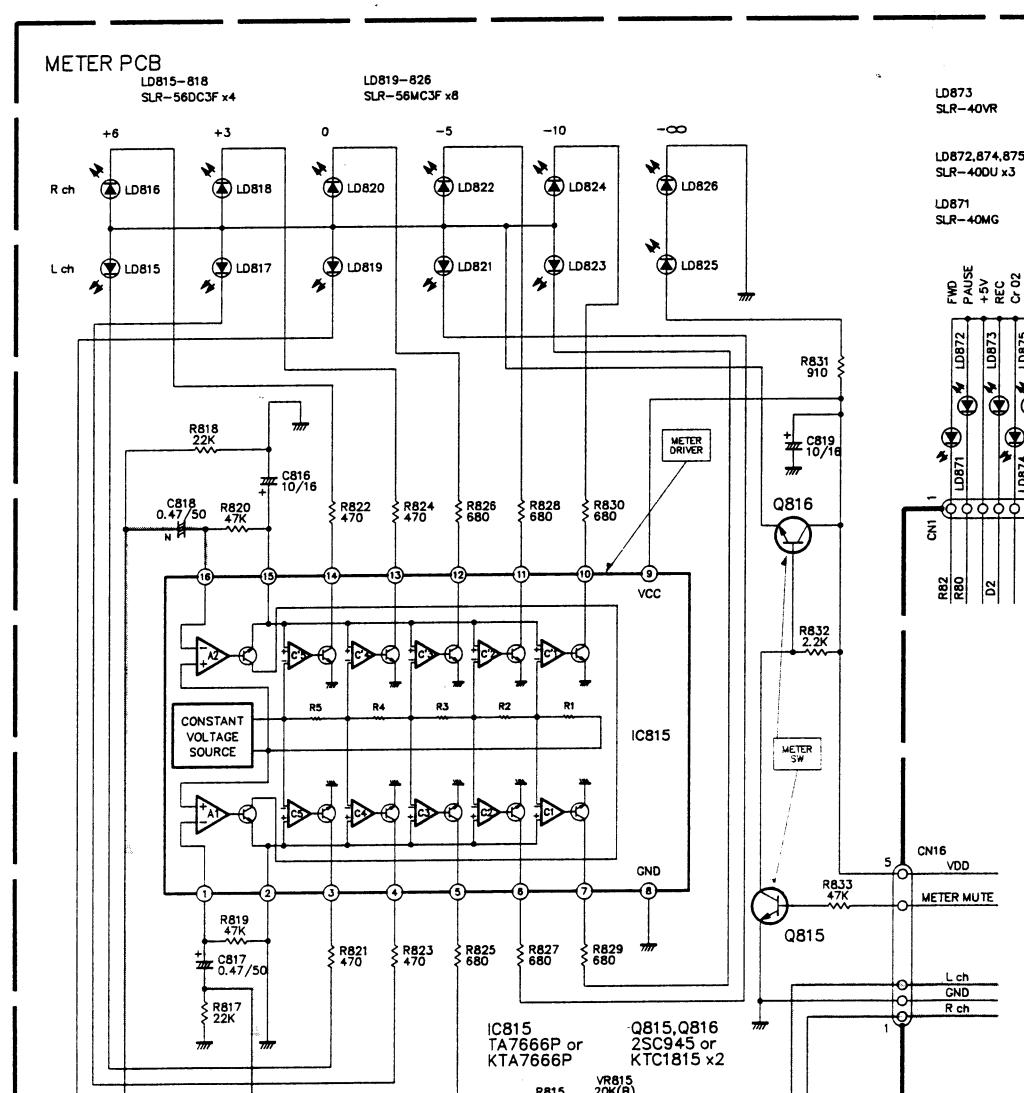
1



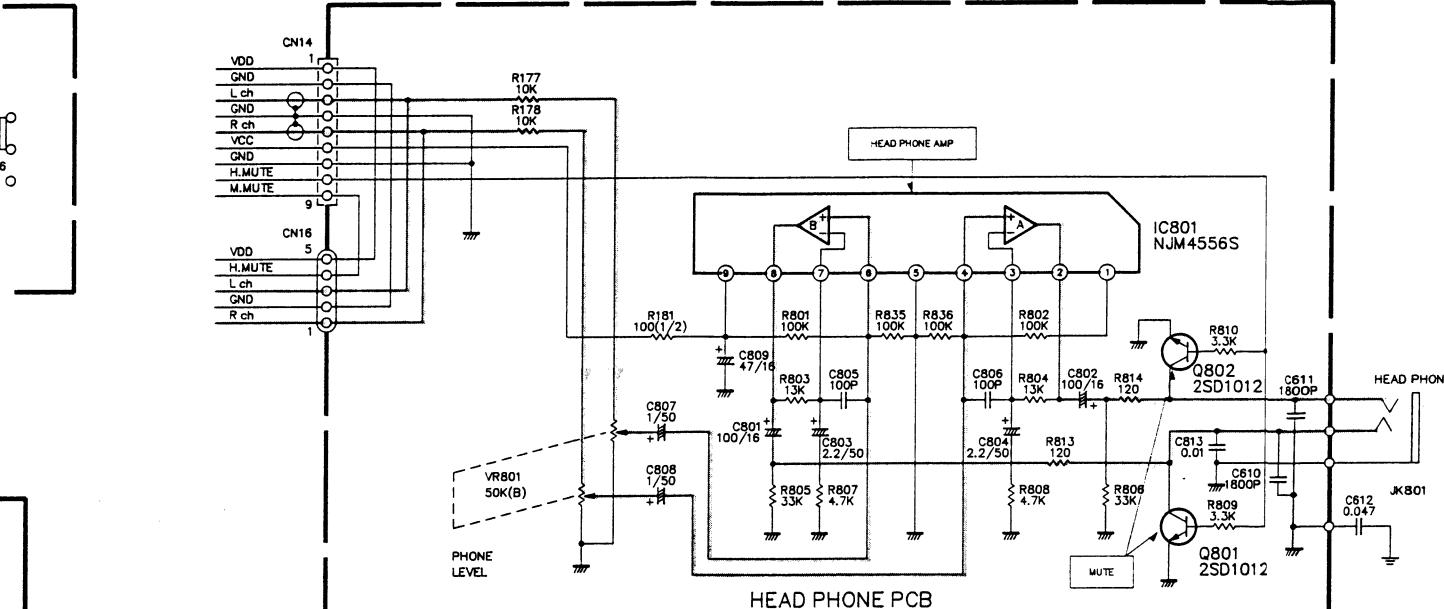
2



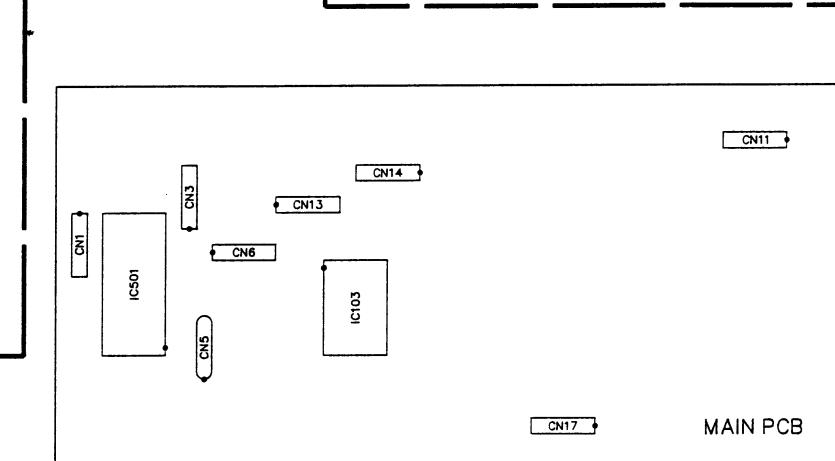
3



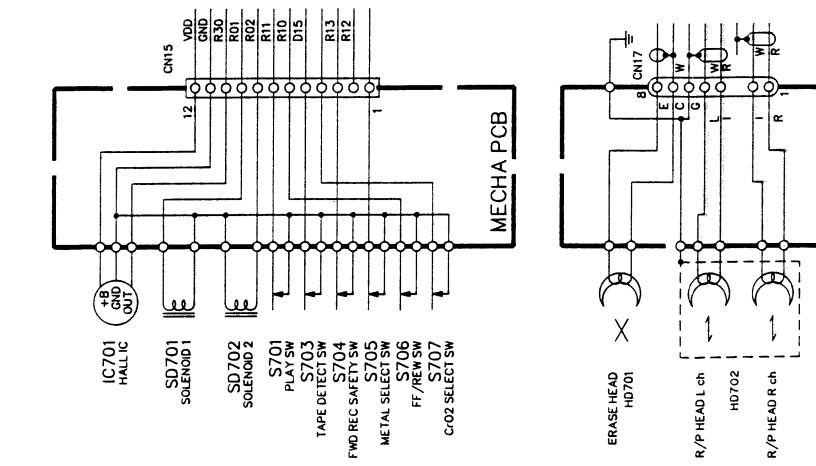
4



5



MAIN PCB



A

B - 20 -

C

1

8

F - 21 -

G

Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list,
please confirm them by schematic diagram.

Capacitor : μ F = microfarads, pF = picofarads

Abbreviations			Symbol No.	Part No.	Description		
			Q113	48E05542S01	2SC945		
RES. = Resistor C.F. = Carbon Film M.F. = Metal Film M.O. = Metal Oxide Film M.P. = Metal Plate CTM. = Cement Resistor TR. = Transistor TRANS. = Transformer CP. = Chip							
CAP. = Capacitor ELY. = Electrolytic CER. = Ceramic MYL. = Mylar TAN. = Tantalum POLY. = Polystyrol PP. = Polypropylene PLT. = Polyethylene STR. = Styrene M-PL. = M-Plastic							
Symbol No.	Part No.	Description	or	48E04784S04	KTC1815		
Main P. C. Board			Q114	48E05542S01	2SC945		
IC's			or	48E04784S04	KTC1815		
IC101	51E05529S01	μ PC1330HA	Q115	48T65363F02	2SA608		
IC102	51T73021F02	NJM2068SD	or	48E04785S03	KTA1015		
IC103	51E05539S01	CX20187	Q204	48E05542S01	2SC945		
IC104	51E05531S01	NJM4558S (D)	or	48E04784S04	KTC1815		
IC202	51T72929F01	μ PC1297CA	Q205	48E05542S01	2SC945		
IC203	51E05533S01	TA75558S	or	48E04784S04	KTC1815		
IC205	51E05532S01	NJU4066BD	Q206	48E05542S01	2SC945		
IC501	51E05534S01	TV1008 614042SK01	or	48E04784S04	KTC1815		
IC502	51E05535S01	PST523E	Q207	48E05542S01	2SC945		
IC601	51E05536S01	MC78M12CT	or	48E04784S04	KTC1815		
IC602	51T94884F04	MC7812CT	Q208	48E05542S01	2SC945		
IC603	51E05537S01	MC78M06CT	or	48E04784S04	KTC1815		
Transistors			Q209	48E05542S01	2SC945		
Q101	48E05541S01	2SD1012	or	48E04784S04	KTC1815		
Q102	48E05541S01	2SD1012	Q210	48T58776F02	2SD438		
Q103	48T65363F02	2SA608	Q211	48T65363F02	2SA608		
or	48E04785S03	KTA1015	or	48E04785S03	KTA1015		
Q104	48E05542S01	2SC945	Q212	48E05542S01	2SC945		
or	48E04784S04	KTC1815	or	48E04784S04	KTC1815		
Q105	48E05542S01	2SC945	Q213	48T65363F02	2SA608		
or	48E04784S04	KTC1815	or	48E04785S03	KTA1015		
Q107	48E05542S01	2SC945	Q214	48E05541S01	2SD1012		
or	48E04784S04	KTC1815	Q215	48E05541S01	2SD1012		
Q108	48E05542S01	2SC945	Q216	48T65363F02	2SA608		
or	48E04784S04	KTC1815	or	48E04785S03	KTA1015		
Q109	48E05541S01	2SD1012	Q221	48E05542S01	2SC945		
Q110	48E05541S01	2SD1012	or	48E04784S04	KTC1815		
Q111	48E05542S01	2SC945	Q222	48E05542S01	2SC945		
or	48E04784S04	KTC1815	or	48E04784S04	KTC1815		
Q112	48E05542S01	2SC945	Q223	48E05542S01	2SC945		
or	48E04784S04	KTC1815	or	48E04784S04	KTC1815		
Q507	48E05541S01	2SD1012	Q224	48E05542S01	2SC945		
Q508	48E05542S01	2SC945	or	48E04784S04	KTC1815		
or	48E04784S04	KTC1815	Q225	48E05542S01	2SC945		
Q510	48E05543S01	2SB808	or	48E04784S04	KTC1815		
Q511	48E05543S01	2SB808	Q226	48E05542S01	2SC945		

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
Q512 or Q513 or Q518 or	48E05542S01 48E04784S04 48E05542S01 48E04784S04 48E05542S01 48E04784S04	2SC945 KTC1815 2SC945 KTC1815 2SC945 KTC1815			D603 or D604 or	48S40477U02 48T44992F01 48S40477U02 48T44992F01	1N4002 DS135D 1N4002 DS135D		
Q519 or Q520 or Q521 or	48E05542S01 48E04784S04 48E05542S01 48E04784S04 48E05542S01 48E04784S04	2SC945 KTC1815 2SC945 KTC1815 2SC945 KTC1815							
Q522 or Q845 or	48T65363F02 48E04785S03 48E05542S01 48E04784S04	2SA608 KTA1015 2SC945 KTC1815							
Diodes									
D102 D103 D104 D201 or	48E04616S01 48E04616S01 48E04616S01 48T40732F08 48T52739F15	1N4148 1N4148 1N4148 Zener, RD3.6E Zener, HZ3-C3			L101 L102 L203 L204 L205 L206 L207 L208 L209	24E05523S01 24E05523S01 24E07997S01 24E07997S01 24E05525S01 24E05525S01 24E05526S01 24E05526S01 24E05527S01	Coil 22mH Coil 22mH Coil 10mH Coil 10mH Coil 6mH Coil 6mH Inductor 12mH Inductor 12mH Coil 1.72mH		
Filters									
FT101 FT102					FT101 FT102	91E05528S01 91E05528S01	10PD MPX 10PD MPX		
Jack									
JK101					JK101	09E07996S01	RCA Jack		
Resonator									
X501					X501	48E05503S01	Resonator 4MHz		

Symbol No.	Part No.	Description				Symbol No.	Part No.	Description		
Capacitors										
C101	21E04638S02	CER..	470pF			C154	23E06052S02	ELY..	330 μ F/10V	
C102	21E04638S02	CER..	470pF			C155	08E04735S09	MYL..	0.022 μ F	
C103	21E04734S02	CER..	680pF			C156	08E04735S09	MYL..	0.022 μ F	
C104	21E04734S02	CER..	680pF			C157	08E04735S10	MYL..	2700pF	
C105	23E04635S03	ELY..	1 μ F/50V			C158	08E04735S10	MYL..	2700pF	
C106	23E04635S03	ELY..	1 μ F/50V			C201	23E04635S08	ELY..	2.2 μ F/50V	
C107	21E04638S03	CER..	100pF			C202	23E04635S08	ELY..	2.2 μ F/50V	
C108	21E04638S03	CER..	100pF			C203	21E04638S10	CER..	1000pF	
C109	21E04734S10	CER..	100pF			C204	21E04638S10	CER..	1000pF	
C110	21E04734S10	CER..	100pF			C205	21E04734S08	CER..	220pF	
C111	08E04735S05	MYL..	0.01 μ F			C206	21E04734S08	CER..	220pF	
C112	08E04735S05	MYL..	0.01 μ F			C207	21E05504S01	CER..	0.047 μ F	
C113	23E04754S04	ELY..	22 μ F/16V			C208	21E05504S01	CER..	0.047 μ F	
C114	23E04754S04	ELY..	22 μ F/16V			C209	08E04735S09	MYL..	0.022 μ F	
C115	23E04754S02	ELY..	220 μ F/16V			C210	08E04735S09	MYL..	0.022 μ F	
C116	23E04754S02	ELY..	220 μ F/16V			C211	08E04735S09	MYL..	0.022 μ F	
C117	23E04754S02	ELY..	220 μ F/16V			C212	08E04735S09	MYL..	0.022 μ F	
C118	21E05504S02	CER..	0.01 μ F			C213	21E04638S09	CER..	430pF	
C119	23E04754S01	ELY..	10 μ F/16V			C214	21E04638S09	CER..	430pF	
C120	23E04754S01	ELY..	10 μ F/16V			C215	08E04735S05	MYL..	0.01 μ F	
C121	08E04735S06	MYL..	0.015 μ F			C216	08E04735S05	MYL..	0.01 μ F	
C122	08E04735S06	MYL..	0.015 μ F			C217	23E04754S01	ELY..	10 μ F/16V	
C123	23E04754S01	ELY..	47 μ F/16V			C218	21E04734S01	CER..	10pF	
C125	21E04734S11	CER..	820pF			C219	08E05505S01	PP..	2200pF	
C126	21E04734S11	CER..	820pF			C220	08E05505S02	PP..	1500pF	
C131	08E04735S16	MYL..	4700pF			C221	23E04754S03	ELY..	100 μ F/16V	
C132	08E04735S16	MYL..	4700pF			C222	08E04735S05	MYL..	0.01 μ F	
C133	23E04635S04	ELY..	0.47 μ F/50V			C223	08E04735S12	MYL..	6800pF	
C134	23E04635S04	ELY..	0.47 μ F/50V			C224	08E04735S05	MYL..	0.01 μ F	
C135	08E05500S01	MYL..	0.15 μ F			C227	21E04734S09	CER..	1000pF	
C136	08E05500S01	MYL..	0.15 μ F			C228	21E04734S09	CER..	1000pF	
C137	08E04735S06	MYL..	0.015 μ F			C229	23E04754S01	ELY..	10 μ F/16V	
C138	08E04735S06	MYL..	0.015 μ F			C230	23E04754S01	ELY..	10 μ F/16V	
C139	23E04635S05	ELY..	0.22 μ F/50V			C231	08E05500S06	MYL..	0.082 μ F	
C140	23E04635S05	ELY..	0.22 μ F/50V			C232	08E05500S06	MYL..	0.082 μ F	
C141	08E05500S03	MYL..	0.068 μ F			C233	08E04735S15	MYL..	1800pF	
C142	08E05500S03	MYL..	0.068 μ F			C234	08E04735S15	MYL..	1800pF	
C143	08E05500S05	MYL..	0.047 μ F			C235	23E04754S01	ELY..	10 μ F/16V	
C144	08E05500S05	MYL..	0.047 μ F			C236	23E04754S01	ELY..	10 μ F/16V	
C145	08E04735S12	MYL..	6800pF			C237	08E04735S08	MYL..	5600pF	
C146	08E04735S12	MYL..	6800pF			C238	08E04735S08	MYL..	5600pF	
C147	08E04735S05	MYL..	0.01 μ F			C241	08E04735S13	MYL..	3300pF	
C148	08E04735S05	MYL..	0.01 μ F			C242	08E04735S13	MYL..	3300pF	
C151	23E04754S01	ELY..	10 μ F/16V			C243	08E04735S15	MYL..	1800pF	
C152	23E04635S07	ELY..	4.7 μ F/50V			C244	08E04735S15	MYL..	1800pF	
						C245	08E04735S18	MYL..	1500pF	
						C246	08E04735S18	MYL..	1500pF	
						C247	08E04735S08	MYL..	5600pF	
						C248	08E04735S08	MYL..	5600pF	
						C249	23E04754S03	ELY..	100 μ F/16V	

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description	
C250	23E04754S01	ELY., 10 μ F/16V			VR102	18E05510S01	Semi-fixed 500B	
C251	23E04754S04	ELY., 22 μ F/16V			or	18E05511S01	Semi-fixed 500B	
C252	23E04754S04	ELY., 22 μ F/16V			VR203	18E05510S06	Semi-fixed 30kB	
C261	23E04635S07	ELY., 4.7 μ F/50V			or	18E05511S06	Semi-fixed 30kB	
C262	23E04635S07	ELY., 4.7 μ F/50V			VR204	18E05510S06	Semi-fixed 30kB	
					or	18E05511S06	Semi-fixed 30kB	
C271	23E04635S03	ELY., 1 μ F/50V			VR205	18E05510S02	Semi-fixed 5kB	
C272	23E04635S03	ELY., 1 μ F/50V			or	18E05511S02	Semi-fixed 5kB	
C277	21E04734S05	CER.. 560pF			VR206	18E05510S02	Semi-fixed 5kB	
C278	21E04734S05	CER.. 560pF			or	18E05511S02	Semi-fixed 5kB	
C279	21E04631S01	CER.. 0.01 μ F			VR207	18E05510S02	Semi-fixed 5kB	
					or	18E05511S02	Semi-fixed 5kB	
C301	23E04635S08	ELY., 2.2 μ F/50V			VR208	18E05510S02	Semi-fixed 5kB	
C302	23E04635S08	ELY., 2.2 μ F/50V			or	18E05511S02	Semi-fixed 5kB	
C303	23E04635S08	ELY., 2.2 μ F/50V			VR209	18E05510S03	Semi-fixed 50kB	
C304	23E04635S08	ELY., 2.2 μ F/50V			or	18E05511S03	Semi-fixed 50kB	
C305	23E04754S05	ELY., 47 μ F/16V			VR210	18E05510S03	Semi-fixed 50kB	
					or	18E05511S03	Semi-fixed 50kB	
C306	23E06052S03	ELY., 100 μ F/10V			VR845	18E05929S01	Semi-fixed 2kB	
C415	23E04754S01	ELY., 10 μ F/16V			or	18E05930S01	Semi-fixed 2KB	
C416	23E04754S01	ELY., 10 μ F/16V						
C501	21E04736S06	CER.. 30pF						
C502	21E04736S06	CER.. 30pF						
C503	23E04754S03	ELY., 100 μ F/16V						
C506	08E04735S11	MYL., 2200pF						
C507	23E04754S08	ELY., 33 μ F/16V						
C508	23E04731S02	ELY., 10 μ F/35V						
C510	23E04754S05	ELY., 47 μ F/16V						
C511	23E04754S05	ELY., 47 μ F/16V						
C601	21E05506S01	CER., 0.047 μ F						
C603	23E04636S03	ELY., 3300 μ F/25V						
C604	23E04754S06	ELY., 470 μ F/16V						
C605	23E04754S07	ELY., 4700 μ F/16V						
C606	23E06052S03	ELY., 100 μ F/10V						
C607	21E04631S04	CER., 0.047 μ F						
C608	23E04635S03	ELY., 1 μ F/50V						
Resistors					Power SW P. C. Board			
R131	06E05508S03	C.F., 1K ohm 1/2W			C895	08E04663S01	CAP.. Line, 0.01 μ F/400V	
R181	06E05508S04	C.F., 100 ohm 1/2W			SW895	40E04667S01	Switch, Push (Power)	
R224	06E05508S05	C.F., 30 ohm 1/2W						
R246	06E05508S02	C.F., 220 ohm 1/2W						
R309	06E05508S06	C.F., 180 ohm 1/2W						
R545	06E05508S03	C.F., 1K ohm 1/2W						
R601	06E05509S01	Fuse 2.2 ohm 1/4W						
R602	06E05546S01	Fuse 2.2 ohm 1/2W						
R603	06E05509S03	Fuse 13 ohm 1/4W						
VR101	18E05510S01	Semi-fixed 500B						
or	18E05511S01	Semi-fixed 500B						
Resistors					Meter P. C. Board			
R131	06E05508S03	C.F., 1K ohm 1/2W			IC815	51E05538S01	TA7666P	
R181	06E05508S04	C.F., 100 ohm 1/2W			or	51E05547S01	KIA7666P	
R224	06E05508S05	C.F., 30 ohm 1/2W						
R246	06E05508S02	C.F., 220 ohm 1/2W						
R309	06E05508S06	C.F., 180 ohm 1/2W						
Resistors					IC			
R545	06E05508S03	C.F., 1K ohm 1/2W			IC815	51E05538S01	TA7666P	
R601	06E05509S01	Fuse 2.2 ohm 1/4W			or	51E05547S01	KIA7666P	
R602	06E05546S01	Fuse 2.2 ohm 1/2W						
R603	06E05509S03	Fuse 13 ohm 1/4W						
VR101	18E05510S01	Semi-fixed 500B						
or	18E05511S01	Semi-fixed 500B						

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
Transistors									
Q815 or Q816 or	48E05542S01 48E04784S04 48E05542S01 48E04784S04	2SC945 KTC1815 2SC945 KTC1815			C815 C816 C817 C818 C819	23E04635S10 23E04635S10 23E04635S04 23E04635S04 23E04635S10	ELY., 10 μ F/16V ELY., 10 μ F/16V ELY., 0.47 μ F/50V ELY., 0.47 μ F/50V ELY., 10 μ F/16V		
LED's									
LD815 LD816 LD817 LD818 LD819 LD820 LD821 LD822 LD823 LD824 LD825 LD826 LD871 LD872 LD873 LD874 LD875	48E05928S01 48E05928S01 48E05928S01 48E05928S01 48E08062S01 48E08062S01 48E08062S01 48E08062S01 48E08062S01 48E08062S01 48E08062S01 48E08062S01 48E05512S01 48E05513S01 48E05514S01 48E05513S01 48E05513S01	SLR-56DC3F (Orange) SLR-56DC3F (Orange) SLR-56DC3F (Orange) SLR-56DC3F (Orange) SLR-56MC3F (Green) SLR-56MC3F (Green) SLR-56MC3F (Green) SLR-56MC3F (Green) SLR-56MC3F (Green) SLR-56MC3F (Green) SLR-40MG3F (Green) SLR-40DU3F (Orange) SLR-40VR3F (Red) SLR-40DU3F (Orange) SLR-40DU3F (Orange)			Capacitors				
Resistors									
VR815 or VR816 or	18E05510S04 18E05511S04 18E05510S04 18E05511S04	Semi-fixed 20kB Semi-fixed 20kB Semi-fixed 20kB Semi-fixed 20kB			Dolby SW P. C. Board				
Switches									
SW855 or SW856 or	40E05516S01 40E05516S02 40E05516S01 40E05516S02	Switch, Push (Dolby ON/OFF) Switch, Push Switch, Push (Dolby B/C) Switch, Push			Control P. C. Board				
Switches									
SW860 SW861 SW862 SW864 SW865 SW866	40E08063S01 40E08063S01 40E08063S01 40E08063S01 40E08063S01 40E08063S01	Switch, Key (PLAY) Switch, Key (PAUSE) Switch, Key (REC) Switch, Key (REW) Switch, Key (STOP) Switch, Key (FF)							

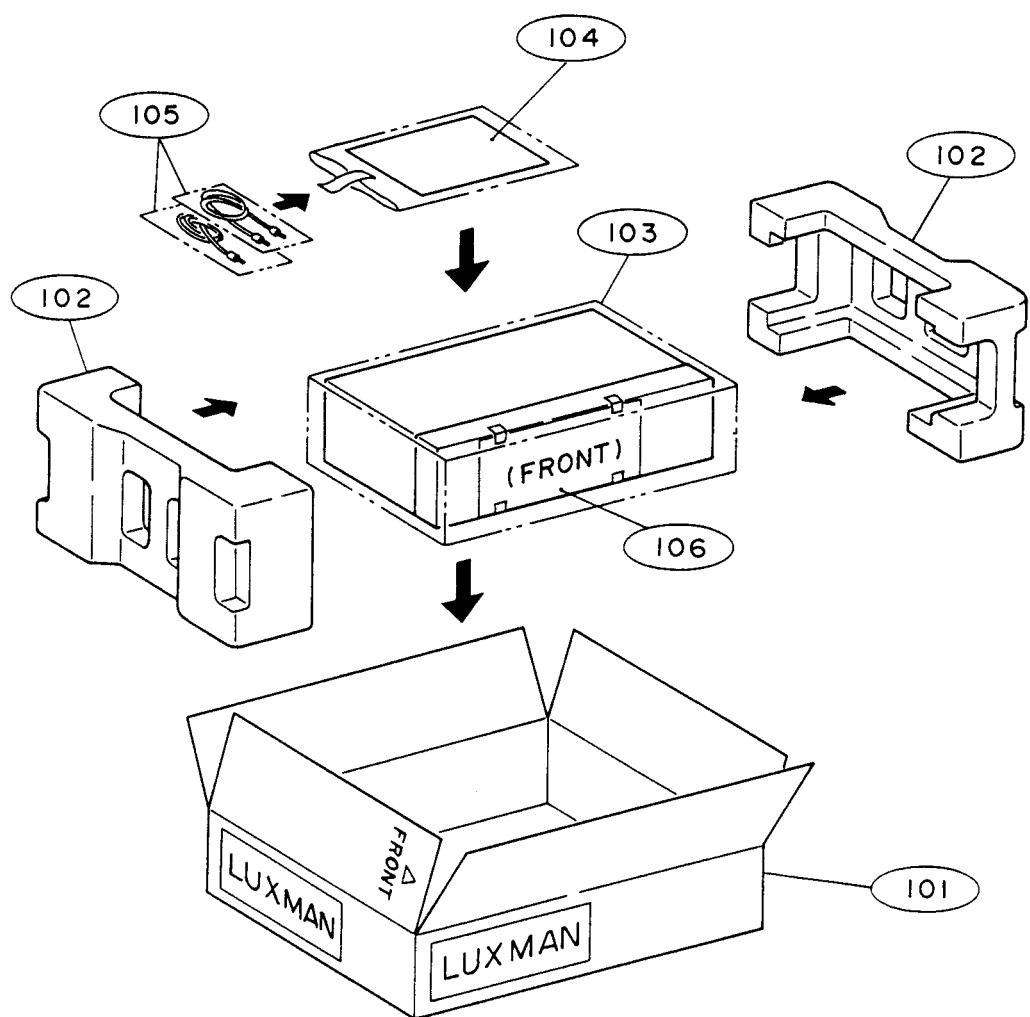
Symbol No.	Part No.	Description		
Headphone P. C. Board				
IC				
IC801	51E05540S01	NJM4556S		
Transistors				
Q801	48E05541S01	2SD1012 (D)		
Q802	48E05541S01	2SD1012 (D)		
Jack				
JK801	09E05518S01	Jack 6.3		
Capacitors				
C801	23E04754S03	ELY..	100 μ F/16V	
C802	23E04754S03	ELY..	100 μ F/16V	
C803	23E04635S08	ELY..	2.2 μ F/50V	
C804	23E04635S08	ELY..	2.2 μ F/50V	
C805	21E04638S03	CER..	100pF	
C806	21E04638S03	CER..	100pF	
C807	23E04635S03	ELY..	1 μ F/50V	
C808	23E04635S03	ELY..	1 μ F/50V	
C809	23E04754S05	ELY..	47 μ F/16V	
Resistors				
VR801 or VR802	18E05520S01 18E05520S02 18E08065S01 18E08065S02	Rotary VR 50KB Rotary VR 50KB Rotary VR 50KB Rotary VR 50KB		

Symbol No.	Part No.	Description		
Miscellaneous				
IC701	51E05436S01	Hall IC LB9050TN for Mechanism		
M701	59E08255S01	Motor		
P801	28E04687S01	AC power Cord		
HD701	88E08253S01	E Head Deck		
HD702	88E08254S01	R/P Head, Deck		
S701	40E05434S01	Switch, Leaf, (PLAY) for Mechanism		
S703	40E05435S01	Switch, Leaf, (Tape Detect) for Mechanism		
S704	40E05433S01	Switch, Leaf, (FWD REC Safety) for Mechanism		
S705	40E05433S01	Switch, Leaf (Metal Select) for Mechanism		
S706	40E05435S01	Switch, Leaf, (FF/ REWIND) for Mechanism		
S707	40E05433S01	Switch, Leaf, (CrO2 Select) for Mechanism		
SD701	01E05399S01	Solenoid 1 for Mechanism		
SD702	01E05399S01	Solenoid 2 for Mechanism		
T801	25E05931S01	TRANS., Power EI54 120/220/240V		
SW800	40E08064S01	Switch, Voltage Selector		

Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101	56E08233S01	Carton, Packing (IND)	106	56E08308S01	PKG, Front Flame
102	56E05497S01	Tray, Packing (L, R)			
103	56E05498S01	Bag, High Polyester			
104	68P96552F73	Owner's Manual			
105	28E04778S02	Cord, Partch			

Packing Method View



Cabinet Assembly Parts List

Note: The parts without part number are not supplied.

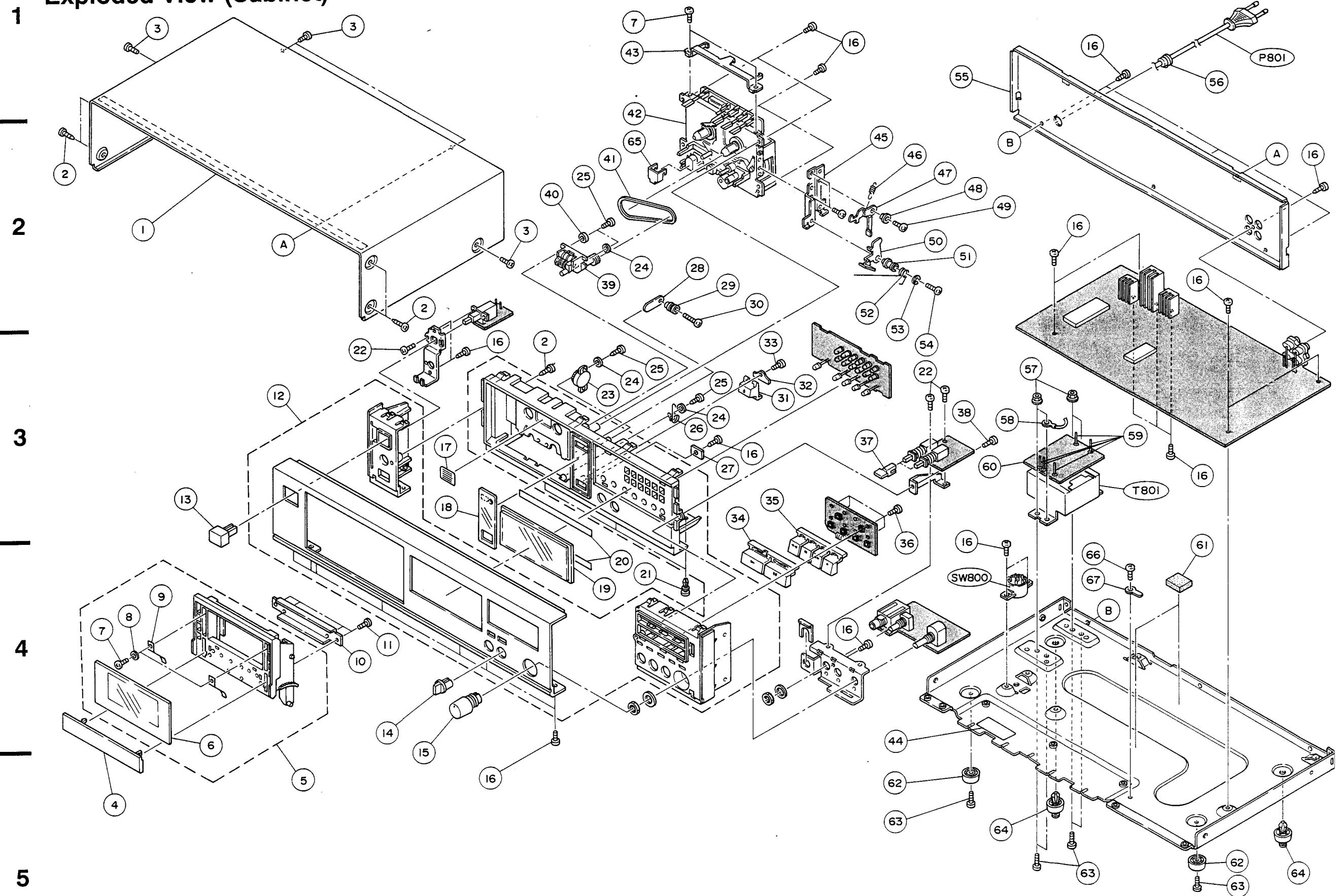
Symbol No.	Index	Part No.	Description		Symbol No.	Index	Part No.	Description	
1	2-A	15E08074S01	Cabinet, Top		36	4-E	03E05066S03	Screw, Taptite	
2		03E04701S04	Screw, Taptite (M3 x 10)		37	3-E	36E04672S01	(M2 x 8)	
3		03E04702S09	Screw, Taptite (M3 x 6)		38	3-F	03E04701S04	Knob, Dolby	
4	5-A	64E08256S01	Plate, Door		39	2-D	72E05466S01	Screw, Taptite	
5	5-B	15E08071S01	Assy., Door		40	2-C	43E07210S01	(M3 x 10)	
6	4-B	64E08257S01	Window, Door		41	2-D	42E05491S01	Counter	
7		03E05066S02	Screw, Taptite (M2 x 5)		42	1-D	81E08066S01	Collar	
8	4-A	04E05465S01	Washer, (M2)		43	1-D	07E08262S01	Belt	
9		41E05448S01	Spring, Leaf		44	5-E	14E08306S01	Assy., Tape,	
10	4-B	07E05451S01	Cover		45	2-E	07E05480S01	Mechanism	
11	4-C	03E04701S03	Screw, Taptite (M2.6 x 8)		46	2-E	41E05481S01	Holder	
12	3-B	64E08068S01	Assy., Panel		47	2-E	07E05483S01	Sheet, Insulation	
13	3-B	36E04673S01	Front		48	2-F	46E05487S01	Holder, Base	
14	4-C	36E05461S01	Knob, Power		49	2-F	03E05490S01	Spring, Coil	
15	5-C	36E04677S01	Knob, Level		50	2-E	07E05485S01	Lever, Look	
16		03E04701S01	Knob, Level		51	2-F	43E05489S01	Stud	
17	3-C	64E05445S01	Screw, Taptite (M3 x 8)		52	2-E	41E05493S01	Screw (M2 x 4)	
18	3-C	64E08258S01	Mirror, Cassette		53	3-E	04E05494S01	Lever, Eject	
19	4-D	64E08259S01	Plate, Indication		54	3-E	03E05490S03	Spacer	
20	4-D	75E08260S01	Window		● 55	1-F	15E08263S01	Spring, Torsion	
			Cushion		56	1-G	43E04688S01	E-ring	
21	4-D	05E04709S02	Rivet, Nylon		57	3-F	02E05471S01	Screw (M2 x 12)	
22		03E04775S02	Screw, Taptite (M3 x 6)		58	3-F	29E04693S01	Panel, Back	
23	3-D	01E08072S01	Assy., Damper		59	3-F	29E08100S01	Panel, Back	
24		04E05467S01	Washer, (M2.6)		60	3-F	84E08281S01	Bushing, Cord	
25		03E04701S06	Screw, Taptite (M2.6 x 6)		61	4-G	75E05472S01	Nut, Flange	
26	3-D	41E05452S01	Spring, Torsion		62		75E04521S01	Lug	
27	3-D	07E05455S01	Holder, Door		63		03E04702S06	Terminal, Pin	
28	2-D	07E05486S01	Slider		64		75E04678S01	PCB 31	
29	2-D	43E05488S01	Spacer		65	2-D	07E08307S01	Cution	
30	2-D	03E05490S02	Screw, (M2 x 10)		66	4-F	03E08004S01	Foot, Front	
31	3-E	36E05468S02	Knob, Eject		67	4-F	29E04693S01	Screw, Taptite	
32	3-E	07E08261S01	Holder					(M3 x 6)	
33	3-E	03E05066S04	Screw, Taptite (M2.6 x 6)					Lug	
34	3-D	36E08070S01	Knob, Play/Pause						
35	3-E	36E06178S01	Knob, Rew/Stop/FF/Rec						

Note ●: For West Germany model only (AD)

○: For General Foreign model only (EK)

Others Common

Exploded View (Cabinet)



A

B - 31 -

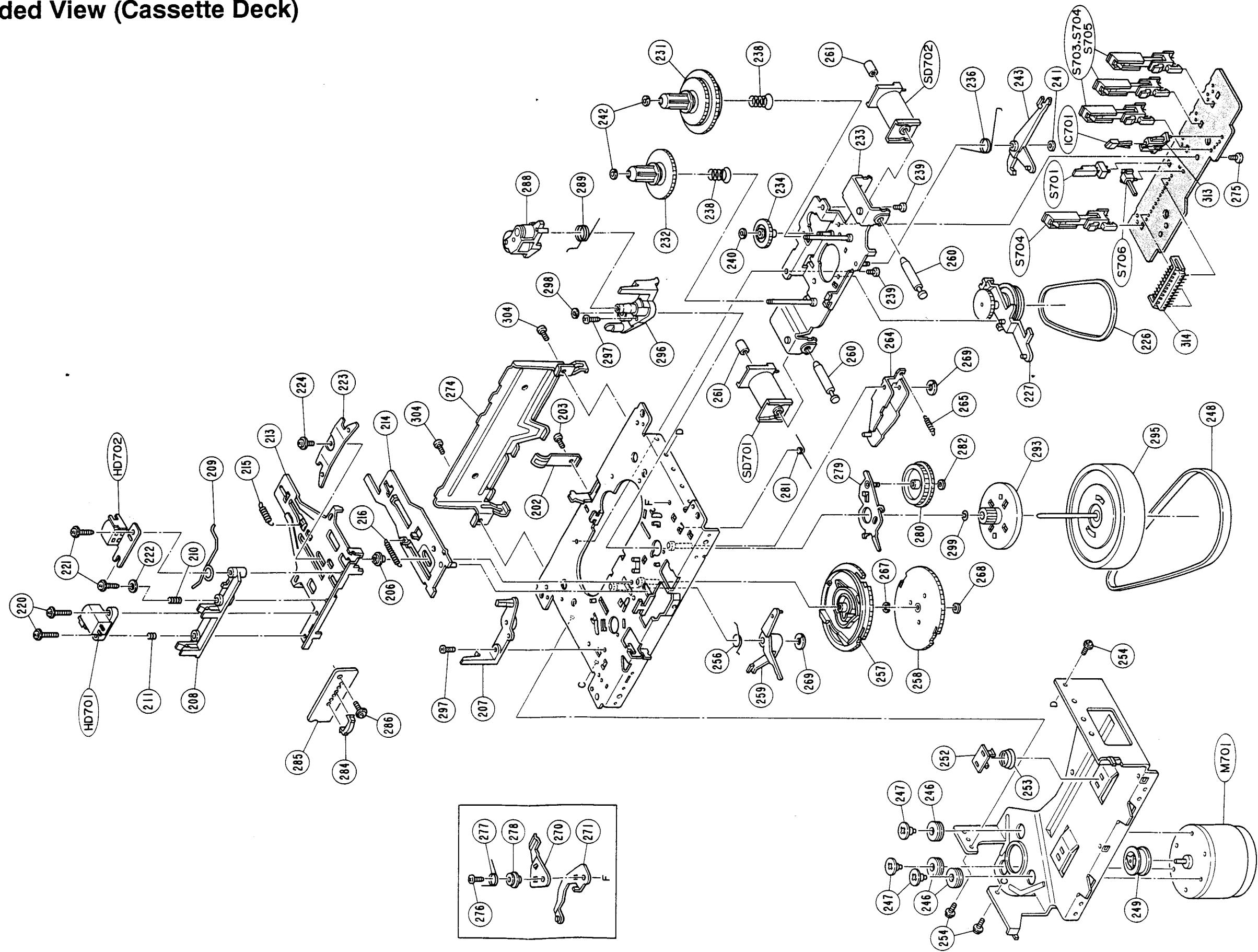
1

F - 32

8

4

Exploded View (Cassette Deck)



A

B

6

D

6

H

Cassette Deck Assembly Parts List

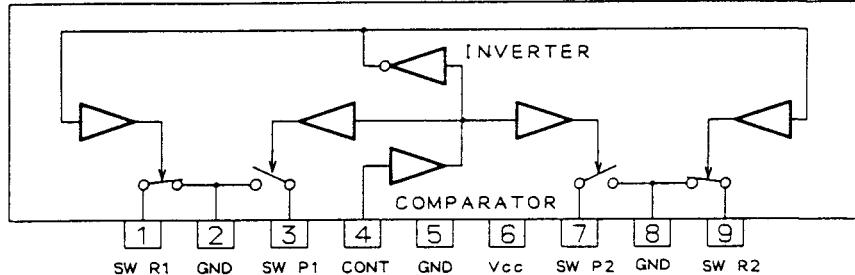
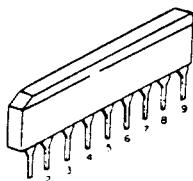
Note: The parts without part number are not supplied.

Symbol No.	Index	Part No.	Description		Symbol No.	Index	Part No.	Description	
202	3-D	41E05346S01	Spring, Pack		253	5-F	41E05387S01	Spring, Damper	
203	3-D	03E05347S01	Screw, Tapping, (M2 x 3)		254		03E05388S01	Screw, Tams (M2 x 4)	
206	4-C	43E08234S01	Collar, Panel (A)		256	4-E	41E05389S01	Spring, M	
207	4-D	45E08238S01	Guide, Tape		257	4-F	44E05390S01	Trigger	
208	4-B	01E08239S01	Head, Base		258	4-F	44E05391S01	M Gear	
209	3-B	41E08242S01	Spring, Pinch Roller		259	4-E	45E05392S01	Gear, RF Cam	
210	3-B	41E08243S01	Spring, Azimuth		260		47E05393S01	Arm, M Trigger	
211	4-B	41E08244S01	Spring, EH		261		43E05394S01	Plunger	
213	3-C	15E08248S01	Head, Panel (A)		264	2-F	01E05397S01	Holder, Plunger	
214	3-C	15E05357S01	Head, Panel (B)		265	3-F	41E05398S01	Ass'y, P Kick	
215	3-B	41E08245S01	Spring, RC		266		41E05398S01	Lever	
216	3-C	41E08246S01	Spring, Panel		267	4-F	04E05400S01	Spring, PK Lever	
220	4-A	03E08236S01	Screw, (M2 x 11)		268	4-F	04E05401S01	E Ring ø2.0	
221	3-B	03E08237S01	Screw, (M2 x 9.5)		269		04E05378S01	HL Washer, (M1.55)	
222	3-B	04E08249S01	Washer, BS (M2.1)		270	5-D	07E05441S01	HL Washer, (M2.1)	
223	3-C	41E08247S01	Spring, Plate		271	5-D	07E05442S01	E Stopper A (F)	
224	3-C	03E05366S01	Screw, Tapping (M2 x 5)		274	3-C	15E05405S01	E Stopper B (F)	
226	2-G	42E05368S01	RF, Belt		275	2-G	03E05406S01	Protector, SW	
227	3-F	01E08240S01	Ass'y, RF Clutch		276	5-D	03E08235S01	Screw, (M2 x 5)	
231	1-E	01E05370S01	Ass'y, T Reel (F)		277	5-D	41E05408S01	Screw, (M2 x 5)	
232	2-E	01E08241S01	Ass'y, S Reel		278	5-D	43E05409S01	Spring, E	
233	2-F	01E05372S01	Ass'y, Reel Base		279	3-E	01E05410S01	Stopper	
234	2-E	44E05373S01	Gear, FF		280	3-F	44E08251S01	Collar, E Stopper	
236	1-F	41E05374S01	Spring, FR		281	3-E	41E05412S01	Ass'y, T Gear	
			Trigger Arm		282	3-F	04E05377S01	Arm	
238		41E05375S01	Spring, (R) B.T		284	4-C	43E05355S01	T Gear	
239	2-F	03E05376S01	Screw, Tapping (M2 x 4)		285	4-C	84E05439S01	Spring, TG Arm	
240	2-E	04E05377S01	P Washer, (M1.2)		286	4-C	03E05365S01	P Washer, (M1.2)	
241	1-G	04E08250S01	P Washer, (M2.1)		288	2-D	01E05416S01	Wire, Clamp	
242	1-D	04E05379S01	HL Washer, (M1.4)		289	2-D	41E05417S01	Relay, Board	
243	1-F	45E05380S01	Arm, RF Trigger		293	3-F	44E05420S01	Screw, (M2 x 5)	
246	5-F	75E05381S01	Motor, Rubber		295	3-G	49E05422S01	Ass'y Flywheel (F)	
247	5-F	03E05382S01	Screw, Motor		296	3-D	01E05423S01	Ass'y FL Metal, (F)	
			Collar		297		03E05424S01	Screw, (M2 x 6)	
248	3-G	42E08252S01	Belt, Main		298	2-D	04E05425S01	Washer (M2.1)	
249	5-G	49E05384S01	Pulley, Motor					(Nylon)	
252	4-F	07E05386S01	FL Patch, Plate		299	3-F	04E08282S01	HL Washer (M2.3)	

Symbol No.	Index	Part No.	Description			Symbol No.	Index	Part No.	Description		
304		03E05376S01	Screw, Tapping (M2 x 4)								
313	2-G	48E05437S01	IC, Protector								
314	2-G	09E05443S01	Connector, TXL-P 12PM1								

Semi-Conductor Lead Identifications

μ PC1330HA : IC101

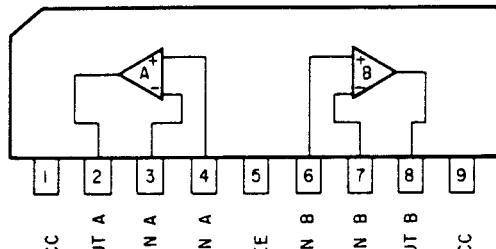
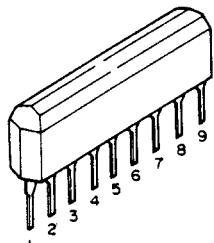


NJM2068 : IC102

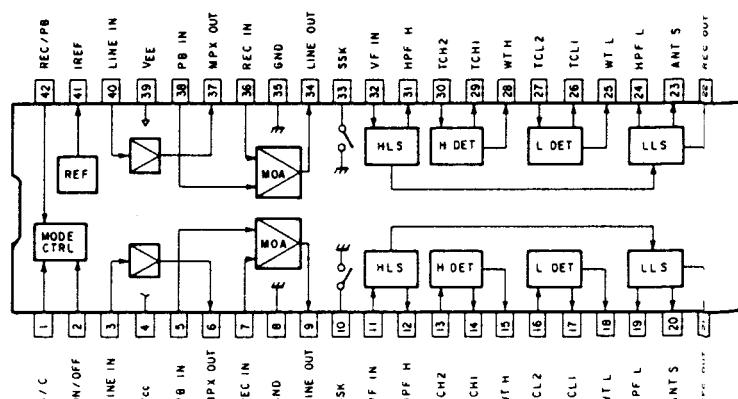
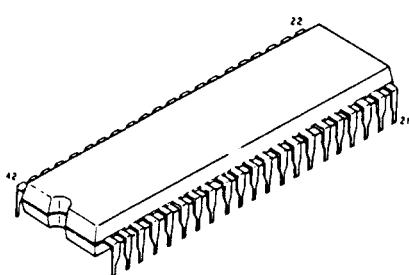
NJM4558S : IC104

NJM4556S : IC801

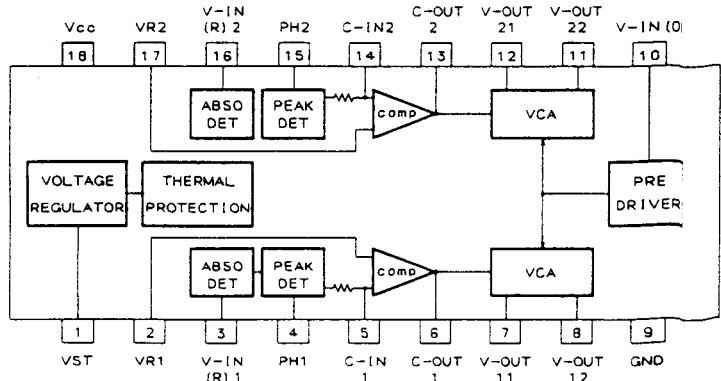
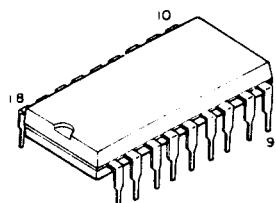
TA75558S : IC203



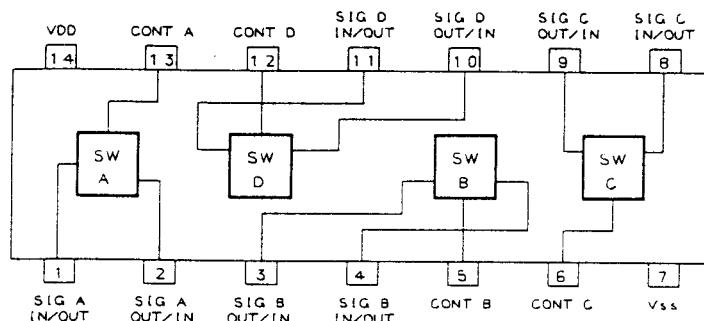
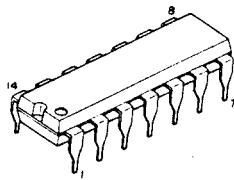
CX20187 : IC103



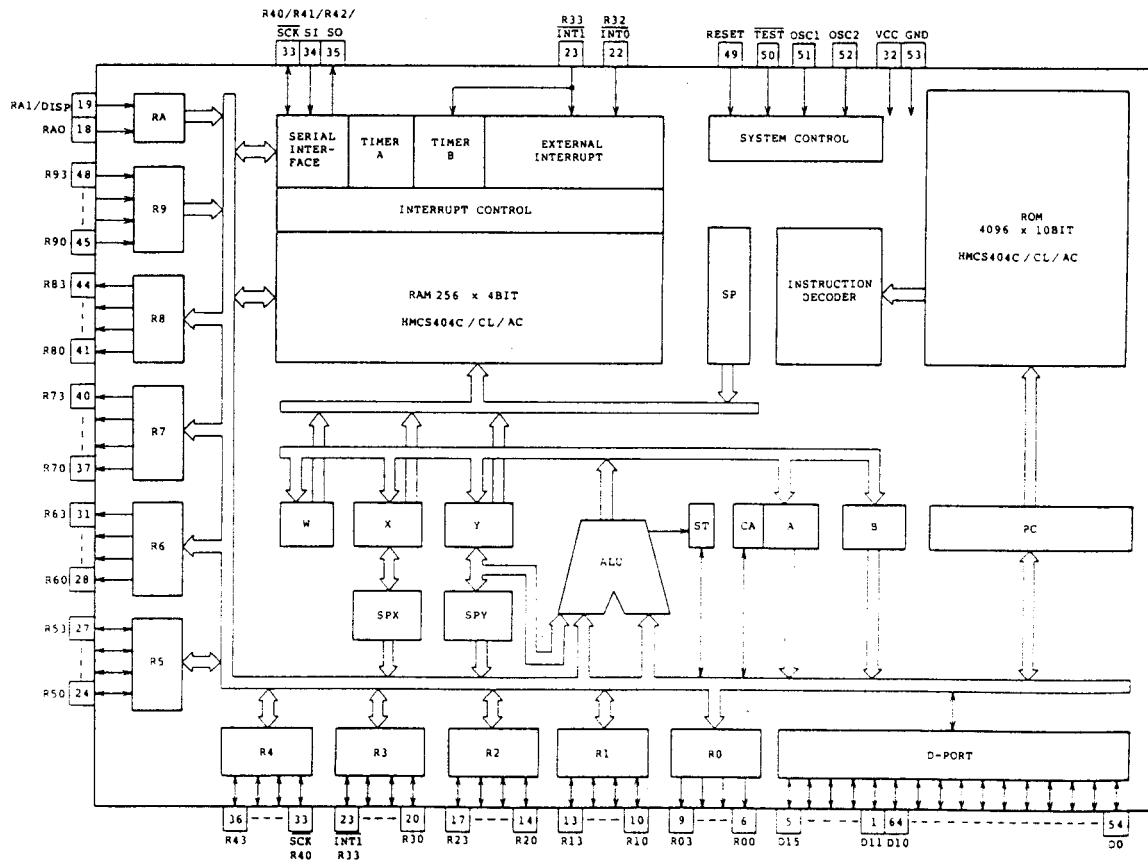
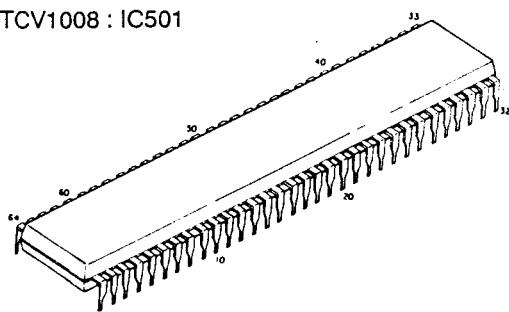
μ PC1297CA : IC202



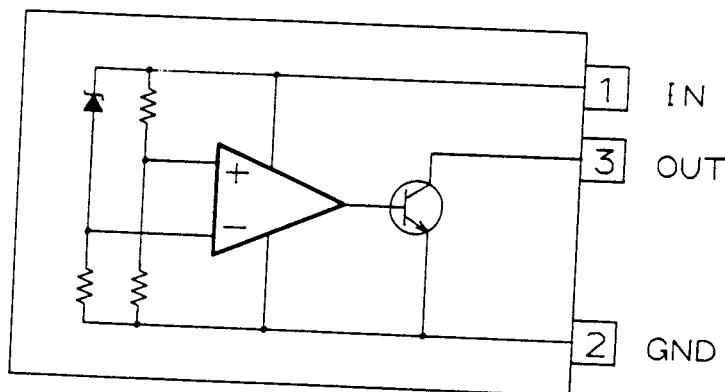
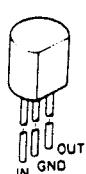
NJU4066B : IC205



TCV1008 : IC501



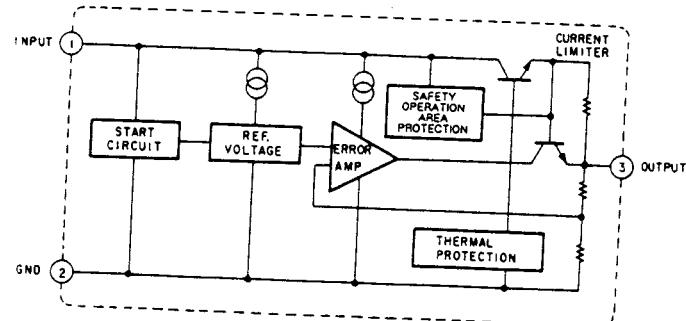
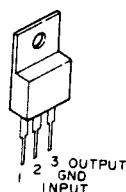
PST523E : IC502



MC7812CT : IC602

MC78M12CT : IC601

MC78M06CT : IC603



TA7666P : IC815

